

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: July 27, 2005, 14:35:07 ; Search time 25 Seconds  
(without alignments)  
1334.725 Million cell updates/sec

Title: US-09-596-958A-2

Perfect score: 2310

Sequence: 1 MSILTLNNTSSSPGLFQSG.....LGDVENHYKVPMSANLKVAE 447

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.\*

1: /cgn2\_6/ptodata/1/iaa/5A\_COMB.pep.\*  
2: /cgn2\_6/ptodata/1/iaa/5B\_COMB.pep.\*  
3: /cgn2\_6/ptodata/1/iaa/6A\_COMB.pep.\*  
4: /cgn2\_6/ptodata/1/iaa/6B\_COMB.pep.\*  
5: /cgn2\_6/ptodata/1/iaa/PCTUS\_COMB.pep.\*  
6: /cgn2\_6/ptodata/1/iaa/backfiles.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2310	100.0	447	3	US-09-120-927-2
2	2310	100.0	447	4	US-09-431-614-6
3	559	24.2	424	3	US-09-120-817-2
4	559	24.2	424	4	US-09-431-614-14
5	359.5	15.6	197	3	US-09-402-668-2
6	341	14.8	221	3	US-09-198-956-4
7	341	14.8	221	4	US-09-670-141-4
8	190.5	8.2	62	3	US-09-402-668-10
9	181.5	7.9	2411	3	US-09-288-347-36
10	174	7.5	2042	4	US-09-077-098A-6
11	165.5	7.2	344	1	US-08-891-254-7
12	165.5	7.2	344	2	US-08-819-539-7
13	165.5	7.2	344	2	US-09-030-270A-7
14	165.5	7.2	344	3	US-08-984-207-7
15	165.5	7.2	344	3	US-09-013-587-7
16	165.5	7.2	344	4	US-09-086-118-27
17	165.5	7.2	344	4	US-09-431-614-15
18	165.5	7.2	344	5	PCT-US96-08819-7
19	160.5	6.9	907	2	US-09-010-928B-4
20	157.5	6.8	2870	4	US-09-479-467A-15
21	157.5	6.8	3178	4	US-09-479-467A-4
22	156.5	6.8	1912	1	US-08-409-995-4
23	156.5	6.8	1912	3	US-08-685-467-4
24	156	6.8	2039	4	US-09-077-098A-7
25	155.5	6.7	2353	3	US-09-377-155-33
26	155.5	6.7	2353	3	US-08-913-942-4
27	155.5	6.7	2353	3	US-09-669-974-33

28	155.5	6.7	2353	4	US-09-797-862-33	Sequence 33, Appl
29	155.5	6.7	2353	4	US-09-684-707-4	Sequence 4, Appl
30	155.5	6.7	2354	3	US-09-268-347-47	Sequence 47, Appl
31	155	6.7	385	5	PCT-US93-06243-2	Sequence 2, Appl
32	155	6.7	495	2	US-08-794-795-2	Sequence 2, Appl
33	155	6.7	495	3	US-09-249-200-2	Sequence 2, Appl
34	154.5	6.7	975	4	US-09-328-352-4764	Sequence 4764, Ap
35	154	6.7	571	3	US-09-134-001C-3855	Sequence 3855, Ap
36	151	6.5	385	1	US-08-891-254-3	Sequence 3, Appl
37	151	6.5	385	2	US-08-819-539-3	Sequence 3, Appl
38	151	6.5	385	5	PCT-US96-08819-3	Sequence 3, Appl
39	151	6.5	403	2	US-08-200-724A-2	Sequence 2, Appl
40	151	6.5	403	2	US-09-030-270A-3	Sequence 2, Appl
41	151	6.5	403	3	US-08-851-376A-2	Sequence 2, Appl
42	151	6.5	403	3	US-08-984-207-3	Sequence 3, Appl
43	151	6.5	403	3	US-09-013-587-3	Sequence 3, Appl
44	151	6.5	403	4	US-09-086-118-23	Sequence 23, Appl
45	151	6.5	403	4	US-09-431-614-3	Sequence 3, Appl

#### ALIGNMENTS

RESULT 1  
US-09-120-927-2  
; Sequence 2, Application US/09120927  
; Patent No. 6262018  
; GENERAL INFORMATION:  
; APPLICANT: Kim, Jihyun Francis  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FROM  
; TITLE OF INVENTION: ERWINIA AMYLOVORA AND ITS USE  
; NUMBER OF SEQUENCES: 3  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: P.O. Box 1051, Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/120,927  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/055,108  
; FILING DATE: 06-AUG-1977  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1581  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 447 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-09-120-927-2

Query Match 100.0%; Score 2310; DB 3; Length 447;  
Best Local Similarity 100.0%; Pred. No. 6.3e-175;  
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MSILTLNNTSSSPGLFQSGDNLGHNANSALGQQPIDRQTIEQAQLLKLKLLS 60

Db 1 MSILTLNNNTSSPGLFQSGDNGLGCHNANSALGQOPIDRTQIEQWALLAELLKSLLS 60  
Qy 61 POSGNAATGAGNDQTTGCVGNAGLNGRKGTAGTTTPOSDSQNNMLSEMGNNGLDQAITPDG 120  
Db 61 POSGNAATGAGNDQTTGCVGNAGLNGRKGTAGTTTPOSDSQNNMLSEMGNNGLDQAITPDG 120  
Qy 121 QGGGQIGDNPLLKAMLKLIARMMDGSDQFGQPGCTGNNSSASCTSSGGSPFNDLSGGKA 180  
Db 121 QGGGQIGDNPLLKAMLKLIARMMDGSDQFGQPGCTGNNSSASCTSSGGSPFNDLSGGKA 180  
Qy 181 PSGNPSGNSPVSTSPPTSPPTSPPLDPPSPPTKAAGGSTPVTDPHPPVGSAGIGAG 240  
Db 181 PSGNPSGNSPVSTSPPTSPPTSPPLDPPSPPTKAAGGSTPVTDPHPPVGSAGIGAG 240  
Qy 241 NSVAFTSAGANQTVLHDTITTVKAGVDFGKGTFTAGSELGDDGQSENOKPLFILEDGAS 300  
Db 241 NSVAFTSAGANQTVLHDTITTVKAGVDFGKGTFTAGSELGDDGQSENOKPLFILEDGAS 300  
Qy 301 LKNVTMGDDGADGIHLGYDAKIDNLHVTNVGDAITVKPNSAGKSHVEITNSSFPHASD 360  
Db 301 LKNVTMGDDGADGIHLGYDAKIDNLHVTNVGDAITVKPNSAGKSHVEITNSSFPHASD 360  
Qy 361 KIQLNADTNLSVDNVKAKDFGTFVRTNGQQGNWDLNLSHISAEDGKFSFVKSDSEGLN 420  
Db 361 KIQLNADTNLSVDNVKAKDFGTFVRTNGQQGNWDLNLSHISAEDGKFSFVKSDSEGLN 420  
Qy 421 VNTSDISLGDVENHYKVPMSANLKVAE 447  
Db 421 VNTSDISLGDVENHYKVPMSANLKVAE 447

RESULT 2  
US-09-431-614-6  
; Sequence 6, Application US/09431614  
; Patent No. 6624139  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Schading, Richard L.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS  
; FILE REFERENCE: 21829/41 (EBC-003)  
; CURRENT APPLICATION NUMBER: US/09/431,614  
; CURRENT FILING DATE: 1999-11-02  
; EARLIER APPLICATION NUMBER: 60/107,243  
; EARLIER FILING DATE: 1998-11-05  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 447  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-09-431-614-6

Query Match 100.0%; Score 2310; DB 4; Length 447;  
Best Local Similarity 100.0%; Pred. No. 6.3e-175;  
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MSILTLNNNTSSPGLFQSGDNGLGCHNANSALGQOPIDRTQIEQWALLAELLKSLLS 60  
Db 1 MSILTLNNNTSSPGLFQSGDNGLGCHNANSALGQOPIDRTQIEQWALLAELLKSLLS 60  
Qy 61 POSGNAATGAGNDQTTGCVGNAGLNGRKGTAGTTTPOSDSQNNMLSEMGNNGLDQAITPDG 120  
Db 61 POSGNAATGAGNDQTTGCVGNAGLNGRKGTAGTTTPOSDSQNNMLSEMGNNGLDQAITPDG 120  
Qy 121 QGGGQIGDNPLLKAMLKLIARMMDGSDQFGQPGCTGNNSSASCTSSGGSPFNDLSGGKA 180  
Db 121 QGGGQIGDNPLLKAMLKLIARMMDGSDQFGQPGCTGNNSSASCTSSGGSPFNDLSGGKA 180  
Qy 181 PSGNPSGNSPVSTSPPTSPPTSPPLDPPSPPTKAAGGSTPVTDPHPPVGSAGIGAG 240  
Db 181 PSGNPSGNSPVSTSPPTSPPTSPPLDPPSPPTKAAGGSTPVTDPHPPVGSAGIGAG 240

Qy 241 NSVAFTSAGANQTVLHDTITTVKAGVDFGKGTFTAGSELGDDGQSENOKPLFILEDGAS 300  
Db 241 NSVAFTSAGANQTVLHDTITTVKAGVDFGKGTFTAGSELGDDGQSENOKPLFILEDGAS 300  
Qy 301 LKNVTMGDDGADGIHLGYDAKIDNLHVTNVGDAITVKPNSAGKSHVEITNSSFPHASD 360  
Db 301 LKNVTMGDDGADGIHLGYDAKIDNLHVTNVGDAITVKPNSAGKSHVEITNSSFPHASD 360  
Qy 361 KIQLNADTNLSVDNVKAKDFGTFVRTNGQQGNWDLNLSHISAEDGKFSFVKSDSEGLN 420  
Db 361 KIQLNADTNLSVDNVKAKDFGTFVRTNGQQGNWDLNLSHISAEDGKFSFVKSDSEGLN 420  
Qy 421 VNTSDISLGDVENHYKVPMSANLKVAE 447  
Db 421 VNTSDISLGDVENHYKVPMSANLKVAE 447

RESULT 3  
US-09-120-817-2  
; Sequence 2, Application US/09120817  
; Patent No. 6172184  
; GENERAL INFORMATION:  
; APPLICANT: Collmer, Alan  
; APPLICANT: Charkowski, Amy  
; APPLICANT: Alfano, James R.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FROM  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: P.O. Box 1051, Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/120,817  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/055,107  
; FILING DATE: 06-AUG-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1741  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 424 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-120-817-2

Query Match 24.2%; Score 559; DB 3; Length 424;  
Best Local Similarity 36.1%; Pred. No. 3.2e-36;  
Matches 147; Conservative 54; Mismatches 132; Indels 74; Gaps 13;

Qy 37 QPIDRTQIEQWALLAELLKSLI---LSPOSGNAATGAGNDQTTGCVGNAGLNGRKGTAG 93  
Db 72 KNDSDS---NIAKLISALIMSLQMLTNSNKQDNTQEQDPSQAPFQNNGGGLG----- 122  
Qy 94 TTPQSDSQNNMLSEMGNGLDQAITPDGQGGGIGDNPILLKAMLKLIARMMDGSDQFGQP 153

Db 123 -TPSADS-----GGGG-----TPDATGGG-GDTP-----SATGGG 151  
Qy 154 GTGNNASSTSSGGSPFNDLSCGKAPSGNSGNYSPVSTFSPSTPTSPPLDFFS 213  
Db 152 GGDTPATGGGGGGGTPATGGG---SGGTPATGGGGGVTPTTQPL-----A 200  
Qy 214 SPTKAAGGTPVTDHPDVPVGSAGIGAGNSVAFSTAGANOTVLHDTTIVKAGQVFDGKGOT 273  
Db 201 NPNRTSG-----TGSVSDTAGS-----TEQAGKINNVKDTIKVGAGEVFDGHGAT 245  
Qy 274 FTAGSELGCGQGENOKPLFILEDGLASLKNVTWGGDGDGIHLVG---DAKIDNLHVTN 329  
Db 246 FTADKSMNGDQGENOKPMFELAGATLKNVNLGENEVDGIHVAKNAQAEVTDNVAQN 305  
Qy 330 VGEDAITVPKNSAGKSHVEITNSSFEHASKDKILOLNADTNLSVDNVKAKDFCTFVRTNG 389  
Db 306 VGEDLITVKGEGGAATVNLNKNSSAKGADKVVQLNANTHLKIDNFKADDFCTGVTWRTNG 365  
Qy 390 GQO-GNWDNLNLSHISAEKGFSPVKSDEGLNVNTSDISLGDVENVHY 435  
Db 366 GKQFDDMSIELNGIEAHGKFALVKSDSDDLKATGNIAMTDVKHAY 412

## RESULT 4

US-09-431-614-14  
; Sequence 14, Application US/09431614  
; Patent No. 6624139  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Schading, Richard L.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS  
; TITLE OF INVENTION: RESISTANCE  
; FILE REFERENCE: 21829/41 (BBC-003)  
; CURRENT APPLICATION NUMBER: US/09/431,614  
; CURRENT FILING DATE: 1999-11-02  
; EARLIER APPLICATION NUMBER: 60/107,243  
; EARLIER FILING DATE: 1998-11-05  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patent in Ver. 2.0  
; SEQ ID NO 14  
; LENGTH: 424  
; TYPE: PRT  
; ORGANISM: Pseudomonas syringae  
US-09-431-614-14

Query Match 24.2%; Score 559; DB 4; Length 424;  
Best Local Similarity 36.1%; Pred. No. 3-2e-36;  
Matches 147; Conservative 54; Mismatches 132; Indels 74; Gaps 13;  
Qy 37 QPIDRQTEOMAQLLAELKSL---LSPQSGNAATGAGGNDQTTGVGNAGLNGRKGATG 93  
Db 72 KPNDQS--NIAKLISALIMSLQLMTNSNKKQDTNQEQPDSQAPFQNNGLG----- 122  
Qy 94 TTPQSDSONLSENGNGLDQAITPDQGGGQIGDNPLLKAMKLLARMMDGSDGFGQP 153  
Db 123 -TPSADS-----GGGG-----TPDATGGG-GDTP-----SATGGG 151  
Qy 154 GTGNNASSTSSGGSPFNDLSCGKAPSGNSGNYSPVSTFSPSTPTSPPLDFFS 213  
Db 152 GGDTPATGGGGGGGTPATGGG---SGGTPATGGGGGVTPTTQPL-----A 200  
Qy 214 SPTKAAGGTPVTDHPDVPVGSAGIGAGNSVAFSTAGANOTVLHDTTIVKAGQVFDGKGOT 273  
Db 201 NPNRTSG-----TGSVSDTAGS-----TEQAGKINNVKDTIKVGAGEVFDGHGAT 245  
Qy 274 FTAGSELGCGQGENOKPLFILEDGLASLKNVTWGGDGDGIHLVG---DAKIDNLHVTN 329  
Db 246 FTADKSMNGDQGENOKPMFELAGATLKNVNLGENEVDGIHVAKNAQAEVTDNVAQN 305  
Qy 330 VGEDAITVPKNSAGKSHVEITNSSFEHASKDKILOLNADTNLSVDNVKAKDFCTFVRTNG 389  
Db 306 VGEDLITVKGEGGAATVNLNKNSSAKGADKVVQLNANTHLKIDNFKADDFCTGVTWRTNG 365

Qy 390 GQO-GNWDNLNLSHISAEKGFSPVKSDEGLNVNTSDISLGDVENVHY 435  
Db 366 GKQFDDMSIELNGIEAHGKFALVKSDSDDLKATGNIAMTDVKHAY 412

## RESULT 5

US-09-402-668-2  
; Sequence 2, Application US/09402668  
; Patent No. 6172030  
; GENERAL INFORMATION:  
; APPLICANT: WADA, Yasunao  
; APPLICANT: KASAI, Miyuki  
; APPLICANT: SHIKATA, Shitsuw  
; APPLICANT: SUZUMATSU, Atsushi  
; APPLICANT: KOIKE, Kenzo  
; APPLICANT: HATADA, Yuji  
; APPLICANT: KOBAYASHI, Tohru  
; APPLICANT: ITO, Susumu  
; APPLICANT: TSUMADOKI, Masaki  
; TITLE OF INVENTION: Detergent Composition  
; FILE REFERENCE: 2173-0116P  
; CURRENT APPLICATION NUMBER: US/09/402,668  
; CURRENT FILING DATE: 1998-10-08  
; PRIOR APPLICATION NUMBER: 9-091142 JAPAN  
; PRIOR FILING DATE: 1997-04-09  
; PRIOR APPLICATION NUMBER: 9-242736 JAPAN  
; PRIOR FILING DATE: 1997-09-08  
; PRIOR APPLICATION NUMBER: PCT/US98/01613  
; PRIOR FILING DATE: 1998-04-09  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: Patent in Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 197  
; TYPE: PRT  
; ORGANISM: Bacillus sp.  
; OTHER INFORMATION: Strain: KSM-P15  
US-09-402-668-2

Query Match 15.6%; Score 359.5; DB 3; Length 197;  
Best Local Similarity 46.3%; Pred. No. 7.1e-21;  
Matches 81; Conservative 29; Mismatches 56; Indels 9; Gaps 4;

Qy 253 TVLHDTTIVKAGQVFDGKGOTTTAG--SELGDGQSQSNQKPLFILEDGASLKNVTMGDDGA 311  
Db 3 TVVHETIRVPAGQTFDGGQTVYVNPNTLGDGSAENQKPIFRLEAGASLKNVVICAPAA 62  
Qy 312 DGHLYGDAKIDNLHVTNVGEDAITVPKNSAGKSHVEITNSSFEHASKDKILOLNADTNL 371  
Db 63 DGVHCYGDCTITNVIWEDVEDGDAITLK--SSGT---VNISGGAAYKAYDKVQINAGTI 117  
Qy 372 SYDNVAKDFGTFVRTNGGQGNWDLNLSHISAEKGFSPVKSDE---GLNVNT 423  
Db 118 NIRNFPADDIGKLVQRNGGTTTKVNVNVCNISRVDAILRLTDSSTSTGRVNT 172

## RESULT 6

US-09-198-956-4  
; Sequence 4, Application US/09198956  
; Patent No. 6185769  
; GENERAL INFORMATION:  
; APPLICANT: Andersen, Lene N.  
; APPLICANT: Schulein, Martin  
; APPLICANT: Lange, Niels Erik K.  
; APPLICANT: Bjornvad, Made E.  
; APPLICANT: Schnorr, Kirk  
; TITLE OF INVENTION: Pectin Degrading Enzymes From Bacillus  
; TITLE OF INVENTION: Licheniformis  
; FILE REFERENCE: 5377.200-US  
; CURRENT APPLICATION NUMBER: US/09/198,956  
; CURRENT FILING DATE: 1998-11-24  
; EARLIER APPLICATION NUMBER: 1344/97  
; EARLIER FILING DATE: 1997-11-24

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; EARLIER APPLICATION NUMBER: 60/067,240
; EARLIER FILING DATE: 1997-12-02
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 221
; TYPE: PRT
; ORGANISM: Bacillus licheniformis
US-09-198-956-4

Query Match
Best Local Similarity 14.8%; Score 341; DB 3; Length 221;
Matches 73; Conservative 33; Mismatches 59; Indels 10; Gaps 2;

QY 254 VLHDTITVKAGQVFDGKGQTFAGSELGDSQSENOKPLFILEDGASLKNVTMGDDGADG 313
Db 31 VHKTIIVKEGQYDYGKRLIAGPELGDSQSQREDQKPIFKVEDGATLKNVVLGAPAADG 90
QY 314 IHLYGDAKIDNLHVTNVGDAITVKPNSAGKSKSHVEITNSSFEHASDKILQLNADTNLSV 373
Db 91 VHTYGNASINNVWVEDVGEDALTVK-----SEGSVTINGSGARLAADKIFQINKASTFTV 145
QY 374 DNVKADFGFVRTNGSQQGNLDNLSHISAEDGKFSFVKSDSEGLNVNTSDISL 428
Db 146 KNFTADQGGKFIQLGGSTFKAVVNIDNCTIITNMKEAIFRTDS-----STSSVTM 195

RESULT 7
US-09-670-141-4
; Sequence 4, Application US/09670141
; Patent No. 6429000
; GENERAL INFORMATION:
; APPLICANT: Andersen, Lene N.
; APPLICANT: Schultein, Martin
; APPLICANT: Lange, Niels Erik K.
; APPLICANT: Bjornvad, Mads E.
; APPLICANT: Schnorr, Kirk
; TITLE OF INVENTION: Pectin Degrading Enzymes From Bacillus
; FILE REFERENCE: 5377.200-US
; CURRENT APPLICATION NUMBER: US/09/670,141
; PRIOR FILING DATE: 2000-09-26
; PRIOR APPLICATION NUMBER: 09/198,956
; PRIOR FILING DATE: 1998-11-24
; PRIOR APPLICATION NUMBER: 1344/97
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/067,240
; PRIOR FILING DATE: 1997-12-02
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 221
; TYPE: PRT
; ORGANISM: Bacillus licheniformis
US-09-670-141-4

Query Match
Best Local Similarity 14.8%; Score 341; DB 4; Length 221;
Matches 73; Conservative 33; Mismatches 59; Indels 10; Gaps 2;

QY 254 VLHDTITVKAGQVFDGKGQTFAGSELGDSQSENOKPLFILEDGASLKNVTMGDDGADG 313
Db 31 VHKTIIVKEGQYDYGKRLIAGPELGDSQSQREDQKPIFKVEDGATLKNVVLGAPAADG 90
QY 314 IHLYGDAKIDNLHVTNVGDAITVKPNSAGKSKSHVEITNSSFEHASDKILQLNADTNLSV 373
Db 91 VHTYGNASINNVWVEDVGEDALTVK-----SEGSVTINGSGARLAADKIFQINKASTFTV 145
QY 374 DNVKADFGFVRTNGSQQGNLDNLSHISAEDGKFSFVKSDSEGLNVNTSDISL 428
Db 146 KNFTADQGGKFIQLGGSTFKAVVNIDNCTIITNMKEAIFRTDS-----STSSVTM 195

us-09-596-958a-2.ra1

RESULT 8
US-09-402-668-10
; Sequence 10, Application US/09402668
; Patent No. 6172030
; GENERAL INFORMATION:
; APPLICANT: WADA, Yasunao
; APPLICANT: KASAI, Miyuki
; APPLICANT: SHIKATA, Shitsuw
; APPLICANT: SUZUMATSU, Atsushi
; APPLICANT: KOIKE, Kenzo
; APPLICANT: HATADA, Yuji
; APPLICANT: KOBAYASHI, Tohru
; APPLICANT: ITO, Susumu
; APPLICANT: TSUMADORI, Masaki
; TITLE OF INVENTION: Detergent Composition
; FILE REFERENCE: 2173-0116P
; CURRENT APPLICATION NUMBER: US/09/402,668
; CURRENT FILING DATE: 1998-10-08
; PRIOR APPLICATION NUMBER: 9-091142 JAPAN
; PRIOR FILING DATE: 1997-04-09
; PRIOR APPLICATION NUMBER: 9-242736 JAPAN
; PRIOR FILING DATE: 1997-09-08
; PRIOR APPLICATION NUMBER: PCT/US98/01613
; PRIOR FILING DATE: 1998-04-09
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 62
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:peptide from
; OTHER INFORMATION: primer
US-09-402-668-10

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Best Local Similarity 8.2%; Score 190.5; DB 3; Length 62;
Matches 39; Conservative 7; Mismatches 13; Indels 1; Gaps 1;

QY 253 TVLHDTITVKAGQVFDGKGQTFAG-SELGDSQSENOKPLFILEDGASLKNVTMGDDGA 311
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RESULT 9
US-09-268-347-36
; Sequence 36, Application US/09268347
; Patent No. 6335182
; GENERAL INFORMATION:
; APPLICANT: Loomore, Sheena M.
; TITLE OF INVENTION: RECOMBINANT HAEMOPHILUS INFLUENZAE ADHESIN PROTEINS
; FILE REFERENCE: 1039-860
; CURRENT APPLICATION NUMBER: US/09/268,347
; CURRENT FILING DATE: 1999-03-16
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 36
; LENGTH: 2411
; TYPE: PRT
; ORGANISM: Haemophilus influenzae
US-09-268-347-36

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Matches 126; Conservative 64; Mismatches 205; Indels 217; Gaps 26;

QY 4 LTINN-----NTSSSFGELFQSGDNGLGGHN-----ANSALGQQPIDROT 43
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QY 44 IEQMAQLLAELKLSLSPSGNAATGAGNDQTTGVGNAGGLNG-----RKCTAGTTTQ 97
Db 1241 AEVAKQDLVDLTK-----PATGAAGNADAKAPDPTTAATVGDRLGLGWLSAKKTADETQD 1296
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; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/891,254
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 344 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-891-254-7

Query Match 7.2%; Score 165.5; DB 1; Length 344;
Best Local Similarity 32.0%; Pred. No. 3.6e-05;
Matches 57; Conservative 20; Mismatches 80; Indels 21; Gaps 7;

QY 18 QSGGD---NGLGHNANSALGQPIDRQTIEQMAQLLAEL-LKSLSPQSGNAATGAGN 73
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QY 74 DQTTGVNAGLNGRKGTAGT--TPQSDSQNMLSEMNGNGLDQAITPDG--QGGGQIGDN 129
DB 194 DGGSGAGGAGANGADGGNGVNGQANGPNAGDVNGANGAD-----DGSDDGGLTGVL 248
QY 130 PLLKAMKLKIARMMD-----QSDQFGQPGTGNNSSASGTSSSGSP--FNDSLGGK 179
DB 249 QKLMKILNALVQMQQGLGGNGQAQGGSKGAGNAPSGANPGANQPGSADDDQSSGQ 306

RESULT 12
US-08-819-539-7
; Sequence 7, Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
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; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 344 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-819-539-7

Query Match 7.2%; Score 165.5; DB 2; Length 344;
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QY 130 PLLKAMKLKIARMMD-----QSDQFGQPGTGNNSSASGTSSSGSP--FNDSLGGK 179
DB 249 QKLMKILNALVQMQQGLGGNGQAQGGSKGAGNAPSGANPGANQPGSADDDQSSGQ 306

RESULT 13
US-09-030-270A-7
; Sequence 7, Application US/09030270A
; Patent No. 5977060
; GENERAL INFORMATION:
; APPLICANT: Zitter, Thomas A.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: INSECT CONTROL WITH A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
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; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/039,226
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1521
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 344 amino acids
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QY 18 QSGGD---NCLGHNANSALGQGPIDRQTTEQMAQLLAEL-LKSLSPQSGNAATGAGGN 73
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RESULT 15
US-09-013-587-7
; Sequence 7, Application US/09013587
; Patent No. 6277814
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/013,587
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/036,048
; FILING DATE: 27-JAN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1501
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 344 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-013-587-7

Query Match 7.2%; Score 165.5; DB 3; Length 344;
Best Local similarity 32.0%; Pred. No. 3.6e-05;
Matches 57; Conservative 20; Mismatches 80; Indels 21; Gaps 7

QY 18 QSGGD---NCLGHNANSALGQGPIDRQTTEQMAQLLAEL-LKSLSPQSGNAATGAGGN 73
DB 134 QPGGNDKGVGVGANGAKGAGGQGGGLAEALQEIETQILQILQGGGAGAGGAGGGVGGAGGA 193
QY 74 DQTTGVGNAGGLNGRGTAGT--TPQSDSQNMLSEMNGNGLDQAITPDG--QGGGQIGDN 129
DB 194 DGGSGAGGAGGANGADGGGVNGNQANGPQNGADVNGANGAD-----DGSDDQGLTGVL 248
QY 130 PLLKAMLKLIARMMD-----GQSDQFGQPGTGNNSASSTGSSGGSP--FNDLSGGK 179
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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

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Listing first 45 summaries

Database : Published Applications AA:\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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1	2310	100.0	447	9	US-09-835-684-5
2	2310	100.0	447	9	US-09-880-371-5
3	2310	100.0	447	9	US-09-879-248-5
4	2310	100.0	447	14	US-10-010-390-5
5	2310	100.0	447	15	US-10-441-736-6
6	2310	100.0	447	16	US-10-847-142-5
7	559	24.2	424	9	US-09-835-684-9
8	559	24.2	424	9	US-09-880-371-9
9	559	24.2	424	9	US-09-879-248-14
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11	559	24.2	424	15	US-10-441-736-14

12	559	24.2	424	16	US-10-847-142-9	Sequence 9, Appli
13	256	11.1	276	14	US-10-156-761-13910	Sequence 13910, A
14	199.5	8.6	1306	15	US-10-282-122A-64405	Sequence 64405, A
15	193	8.4	694	15	US-10-282-122A-64726	Sequence 64726, A
16	191.5	8.3	584	15	US-10-282-122A-50604	Sequence 50604, A
17	190.5	8.2	226	16	US-10-425-115-229387	Sequence 229387, A
18	188	8.1	639	15	US-10-282-122A-64609	Sequence 64609, A
19	186.5	8.1	591	15	US-10-282-122A-64363	Sequence 64363, A
20	185.5	8.0	1381	16	US-10-425-115-313677	Sequence 313677, A
21	185	8.0	255	16	US-10-282-122A-64869	Sequence 64869, A
22	183	7.9	588	17	US-10-481-563A-4	Sequence 4, Appli
23	183	7.9	588	17	US-10-282-122A-64464	Sequence 64464, A
24	182	7.9	606	15	US-09-820-843A-19	Sequence 19, Appl
25	181.5	7.9	484	10	US-10-282-122A-64867	Sequence 64867, A
26	181.5	7.9	484	15	US-09-820-843A-20	Sequence 20, Appl
27	180.5	7.8	1079	10	US-10-282-122A-64514	Sequence 64514, A
28	176.5	7.6	562	15	US-10-282-122A-64786	Sequence 64786, A
29	174	7.5	615	15	US-10-192-584-6	Sequence 6, Appli
30	174	7.5	2042	14	US-10-282-122A-64903	Sequence 64903, A
31	172.5	7.5	584	15	US-10-369-493-5784	Sequence 5784, Ap
32	172	7.4	3507	15	US-10-282-122A-64494	Sequence 64494, A
33	171.5	7.4	667	15	US-10-282-122A-62341	Sequence 62341, A
34	171	7.4	505	15	US-10-282-122A-64606	Sequence 64606, A
35	169.5	7.3	914	15	US-10-282-122A-64763	Sequence 64763, A
36	169	7.3	525	15	US-10-282-122A-64589	Sequence 64589, A
37	167.5	7.3	1011	15	US-10-282-122A-50634	Sequence 50634, A
38	166.5	7.2	518	15	US-10-282-122A-64658	Sequence 64658, A
39	166.5	7.2	532	15	US-10-282-122A-64750	Sequence 64750, A
40	166	7.2	461	15	US-10-282-122A-64537	Sequence 64537, A
41	166	7.2	603	15	US-10-282-122A-48384	Sequence 48384, A
42	166	7.2	767	15	US-09-086-118-27	Sequence 27, Appl
43	165.5	7.2	344	9	US-09-835-684-11	Sequence 11, Appl
44	165.5	7.2	344	9	US-09-880-371-11	Sequence 11, Appl
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#### ALIGNMENTS

#### RESULT 1

US-09-835-684-5  
; Sequence 5, Application US/09835684  
; Patent No. US20020019337A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Remick, Dean  
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR DESICCATION  
; FILE REFERENCE: 21829/71  
; CURRENT APPLICATION NUMBER: US/09/835,684  
; CURRENT FILING DATE: 2001-04-16  
; PRIOR APPLICATION NUMBER: 60/198,359  
; PRIOR FILING DATE: 2000-04-19  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 5  
; LENGTH: 447  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
; US-09-835-684-5

Query Match	100.0%	Score 2310;	DB 9;	Length 447;
Best Local Similarity	100.0%	Pred. No. 1.3e-151;		
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QY 421 VNTSDISLGDVENHYKVPMSANLKVAE 447  
Db 421 VNTSDISLGDVENHYKVPMSANLKVAE 447

## RESULT 2

US-09-880-371-5  
; Sequence 5, Application US/09880371  
; Patent No. US20020059658A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: DeRoche, Jay  
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC  
; FILE REFERENCE: 21823/91  
; CURRENT APPLICATION NUMBER: US/09/880,371  
; CURRENT FILING DATE: 2001-06-13  
; PRIOR APPLICATION NUMBER: 60/211,585  
; PRIOR FILING DATE: 2000-06-15  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 5  
; LENGTH: 447  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-09-880-371-5

Query Match 100.0%; Score 2310; DB 9; Length 447;  
Best Local Similarity 100.0%; Pred. No. 1.3e-151;  
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 361 KILQLNADTNLSVDNVKAKDFGTFVRTNGGQGNWDLNLSHISAEDGKFSFVKSDSEGLN 420  
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Db 421 VNTSDISLGDVENHYKVPMSANLKVAE 447

## RESULT 3

US-09-879-248-6  
; Sequence 6, Application US/09879248  
; Patent No. US20020062500A1  
; GENERAL INFORMATION:  
; APPLICANT: Fan, Hao  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE  
; FILE REFERENCE: 21829/81  
; CURRENT APPLICATION NUMBER: US/09/879,248  
; CURRENT FILING DATE: 2001-06-12  
; PRIOR APPLICATION NUMBER: 60/212,211  
; PRIOR FILING DATE: 2000-06-16  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 447  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-09-879-248-6

Query Match 100.0%; Score 2310; DB 9; Length 447;  
Best Local Similarity 100.0%; Pred. No. 1.3e-151;  
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSILTLNNNTSSPGLFQSGGDNGLGHNANSALGQOPIRQTIQMAQLLAELLKSLLS 60  
Db 1 MSILTLNNNTSSPGLFQSGGDNGLGHNANSALGQOPIRQTIQMAQLLAELLKSLLS 60  
QY 61 POSGNAATGAGGNDQTTGVCNAGGLNGRKGCTAGTTTQSDSQNNMLSEMGNGGLDQAITPDG 120  
Db 61 POSGNAATGAGGNDQTTGVCNAGGLNGRKGCTAGTTTQSDSQNNMLSEMGNGGLDQAITPDG 120  
QY 121 QGGGQIGDNPLLKAMLKLIARWMDGSDQDFGQGTGNNSSASCTSSGSGSPFNDLSGGKA 180  
Db 121 QGGGQIGDNPLLKAMLKLIARWMDGSDQDFGQGTGNNSSASCTSSGSGSPFNDLSGGKA 180  
QY 181 PSNGSPSGNYSVPSTSPSTPTSPPLDPPSPPTKAAGGSTPVTDHDPVGSAGIGAG 240  
Db 181 PSNGSPSGNYSVPSTSPSTPTSPPLDPPSPPTKAAGGSTPVTDHDPVGSAGIGAG 240  
QY 241 NSVAFTSAGANQTVLHDTITVKAGQVDFGKQGTFTAGSELGCGQSENQKPLFILEDGAS 300  
Db 241 NSVAFTSAGANQTVLHDTITVKAGQVDFGKQGTFTAGSELGCGQSENQKPLFILEDGAS 300  
QY 301 LKNVTMGDDGADGIHLYGDAKIDNLHVTNVGDEAITVKPNSAGKSHVETNSSPFHASD 360  
Db 301 LKNVTMGDDGADGIHLYGDAKIDNLHVTNVGDEAITVKPNSAGKSHVETNSSPFHASD 360  
QY 361 KILQLNADTNLSVDNVKAKDFGTFVRTNGGQGNWDLNLSHISAEDGKFSFVKSDSEGLN 420  
Db 361 KILQLNADTNLSVDNVKAKDFGTFVRTNGGQGNWDLNLSHISAEDGKFSFVKSDSEGLN 420  
QY 421 VNTSDISLGDVENHYKVPMSANLKVAE 447  
Db 421 VNTSDISLGDVENHYKVPMSANLKVAE 447

## RESULT 4

```
US-10-010-390-5
; Sequence 5, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Ernesto
; APPLICANT: Oviedo, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; FILE REFERENCE: 21829/111
; CURRENT APPLICATION NUMBER: US/10/010,390
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
; PRIOR FILING DATE: 2000-11-13
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 447
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-010-390-5

Query Match 100.0%; Score 2310; DB 14; Length 447;
Best Local Similarity 100.0%; Pred. No. 1.3e-151;
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MSILTLNNNTSSSPGLFQSGDGLGHNANSALGQOPIDROTIQMAQLLAELLKSLLS 60
Db 1 MSILTLNNNTSSSPGLFQSGDGLGHNANSALGQOPIDROTIQMAQLLAELLKSLLS 60
Qy 61 PQSNAATGAGNDQTTGVGNAGLNGRKGTAGTTTQSDSQNMLSENGNGLDQAITPDG 120
Db 61 PQSNAATGAGNDQTTGVGNAGLNGRKGTAGTTTQSDSQNMLSENGNGLDQAITPDG 120
Qy 121 QGGQIGDNPLLKAMLKLIARMDGSDQFQPGTGNNSASSGTSSSGGSPFNDLSGKA 180
Db 121 QGGQIGDNPLLKAMLKLIARMDGSDQFQPGTGNNSASSGTSSSGGSPFNDLSGKA 180
Qy 181 PSNPSGNGYSPVSTFSPSTPTSPDLPPSPPTKAAGSTPTVTDHPDPVGSAGIGAG 240
Db 181 PSNPSGNGYSPVSTFSPSTPTSPDLPPSPPTKAAGSTPTVTDHPDPVGSAGIGAG 240
Qy 241 NSVAFTSAGANQTVLHDTITVKAGQVFDGKQFTTAGSELGDCGQSENQKPLFILEDGA 300
Db 241 NSVAFTSAGANQTVLHDTITVKAGQVFDGKQFTTAGSELGDCGQSENQKPLFILEDGA 300
Qy 301 LKNVTMGDDGADGHLVYGDADKIDNLHVTNVGDAITVKPNSAGKSHVEITNSSFHASD 360
Db 301 LKNVTMGDDGADGHLVYGDADKIDNLHVTNVGDAITVKPNSAGKSHVEITNSSFHASD 360
Qy 361 KILQLNADTNLSVDNVKAKDFGTVRTNGGQGNWDLNLSHISAEDGKFSFVKSDSGLN 420
Db 361 KILQLNADTNLSVDNVKAKDFGTVRTNGGQGNWDLNLSHISAEDGKFSFVKSDSGLN 420
Qy 421 VNTSDISLGDVENHYKVPMSANLKVAE 447
Db 421 VNTSDISLGDVENHYKVPMSANLKVAE 447

RESULT 5
US-10-441-736-6
; Sequence 6, Application US/10441736
; Publication No. US20040016029A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Schading, Richard L.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS
; FILE REFERENCE: 21829/203 (EBC-003)
; CURRENT APPLICATION NUMBER: US/10/441,736
; CURRENT FILING DATE: 2003-05-20
; PRIOR APPLICATION NUMBER: 60/107,243
; PRIOR FILING DATE: 1998-11-05

US-10-010-390-5
; Sequence 5, Application US/10010390
; Publication No. US20030104979A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Leon, Ernesto
; APPLICANT: Oviedo, Agustín
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED
; FILE REFERENCE: 21829/111
; CURRENT APPLICATION NUMBER: US/10/010,390
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: 60/248,169
; PRIOR FILING DATE: 2000-11-13
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 447
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-010-390-5

Query Match 100.0%; Score 2310; DB 14; Length 447;
Best Local Similarity 100.0%; Pred. No. 1.3e-151;
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MSILTLNNNTSSSPGLFQSGDGLGHNANSALGQOPIDROTIQMAQLLAELLKSLLS 60
Db 1 MSILTLNNNTSSSPGLFQSGDGLGHNANSALGQOPIDROTIQMAQLLAELLKSLLS 60
Qy 61 PQSNAATGAGNDQTTGVGNAGLNGRKGTAGTTTQSDSQNMLSENGNGLDQAITPDG 120
Db 61 PQSNAATGAGNDQTTGVGNAGLNGRKGTAGTTTQSDSQNMLSENGNGLDQAITPDG 120
Qy 121 QGGQIGDNPLLKAMLKLIARMDGSDQFQPGTGNNSASSGTSSSGGSPFNDLSGKA 180
Db 121 QGGQIGDNPLLKAMLKLIARMDGSDQFQPGTGNNSASSGTSSSGGSPFNDLSGKA 180
Qy 181 PSNPSGNGYSPVSTFSPSTPTSPDLPPSPPTKAAGSTPTVTDHPDPVGSAGIGAG 240
Db 181 PSNPSGNGYSPVSTFSPSTPTSPDLPPSPPTKAAGSTPTVTDHPDPVGSAGIGAG 240
Qy 241 NSVAFTSAGANQTVLHDTITVKAGQVFDGKQFTTAGSELGDCGQSENQKPLFILEDGA 300
Db 241 NSVAFTSAGANQTVLHDTITVKAGQVFDGKQFTTAGSELGDCGQSENQKPLFILEDGA 300
Qy 301 LKNVTMGDDGADGHLVYGDADKIDNLHVTNVGDAITVKPNSAGKSHVEITNSSFHASD 360
Db 301 LKNVTMGDDGADGHLVYGDADKIDNLHVTNVGDAITVKPNSAGKSHVEITNSSFHASD 360
Qy 361 KILQLNADTNLSVDNVKAKDFGTVRTNGGQGNWDLNLSHISAEDGKFSFVKSDSGLN 420
Db 361 KILQLNADTNLSVDNVKAKDFGTVRTNGGQGNWDLNLSHISAEDGKFSFVKSDSGLN 420
Qy 421 VNTSDISLGDVENHYKVPMSANLKVAE 447
Db 421 VNTSDISLGDVENHYKVPMSANLKVAE 447

RESULT 6
US-10-847-142-5
; Sequence 5, Application US/10847142
; Publication No. US20040265442A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Qiu, Dewen
; APPLICANT: Remick, Dean
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE
; FILE REFERENCE: 21829/197
; CURRENT APPLICATION NUMBER: US/10/847,142
; CURRENT FILING DATE: 2004-05-17
; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; PRIOR APPLICATION NUMBER: 09/835,684
; PRIOR FILING DATE: 2001-04-16
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 447
; TYPE: PRT
; ORGANISM: Erwinia amylovora
US-10-847-142-5
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Query Match 100.0%; Score 2310; DB 16; Length 447;  
Best Local Similarity 100.0%; Pred. No. 1.3e-151;  
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSILTLNNNTSSPGLFQSGGDNGLGHNANSALGQOPIDROTIEQMAQLLAELLKSLLS 60  
DB 1 MSILTLNNNTSSPGLFQSGGDNGLGHNANSALGQOPIDROTIEQMAQLLAELLKSLLS 60

QY 61 PQSNAATGAGGNDQTTGVCNAGLNGKGTACTTTPQSDSQNNMLSEWNGNGLDQAITPDG 120  
DB 61 PQSNAATGAGGNDQTTGVCNAGLNGKGTACTTTPQSDSQNNMLSEWNGNGLDQAITPDG 120

QY 121 QCGGQIGDNPPLLKMLKLARMDGOSDQFQPGCTGNNASSGTSSGSPFNDLSGGKA 180  
DB 121 QCGGQIGDNPPLLKMLKLARMDGOSDQFQPGCTGNNASSGTSSGSPFNDLSGGKA 180

QY 181 PSGNSPGNYSVSTSPSTPTSPDLPFSPSPTKAAGGSTPVTDHPDPVGSAGIGAG 240  
DB 181 PSGNSPGNYSVSTSPSTPTSPDLPFSPSPTKAAGGSTPVTDHPDPVGSAGIGAG 240

QY 241 NSVAFTSAGANOTVLHDTITVKAGOVFDGKGQFTTAGSELGCGQSENOKPLFILEDGS 300  
DB 241 NSVAFTSAGANOTVLHDTITVKAGOVFDGKGQFTTAGSELGCGQSENOKPLFILEDGS 300

QY 301 LKNVTMGDDGADGIHLYGDAKIDNLHVTNVGDAITVKPNSAGKSHVEITNSSPFEASD 360  
DB 301 LKNVTMGDDGADGIHLYGDAKIDNLHVTNVGDAITVKPNSAGKSHVEITNSSPFEASD 360

QY 361 KILQNLADTNLSVDNVKAKDFGTFVRTNGQQGNWDLNLSHISAEDGKFSFVKSDSEGLN 420  
DB 361 KILQNLADTNLSVDNVKAKDFGTFVRTNGQQGNWDLNLSHISAEDGKFSFVKSDSEGLN 420

QY 421 VNTSDISLGDVENHYKVPMSANUKVAE 447  
DB 421 VNTSDISLGDVENHYKVPMSANUKVAE 447

RESULT 7  
US-09-835-684-9  
; Sequence 9, Application US/09835684  
; Patent No. US20020019337A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Oiu, Dewen  
; APPLICANT: Remick, Dean  
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
; RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
; FILE REFERENCE: 21829/71  
; CURRENT APPLICATION NUMBER: US/09/835,684  
; PRIOR FILING DATE: 2001-04-16  
; PRIOR APPLICATION NUMBER: 60/198,359  
; PRIOR FILING DATE: 2000-04-19  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 9  
; LENGTH: 424  
; TYPE: PRT  
; ORGANISM: Pseudomonas syringae  
US-09-835-684-9

Query Match 24.2%; Score 559; DB 9; Length 424;  
Best Local Similarity 36.1%; Pred. No. 2e-30;  
Matches 147; Conservative 54; Mismatches 132; Indels 74; Gaps 13;

QY 37 QPIDRTIEQMAQLLAELLKSL---LSPOSNAATGAGGNDQTTGVGNAGGLNGRKG TAG 93  
DB 72 KPNDSSQ--NIAKLI SALIMSLQLMLTNSNKKQDTNQEQPDSQAPFQNNGLG-----122

QY 94 TTPQSDSQNNMLSEWNGNGLDQAITPDGQGGQIGDNPPLKMLKLARMDGOSDQFGQP 153  
DB 123 -TPSADS-----GGGG-----TPDATGGG-GDTP-----SATGGG 151

QY 154 GTGNNSASGTSSSGSGSPFNDLSGKAPSGNSPGNYSVPSTFSPSTPTSPSPLDFFPS 213  
DB 152 GGDTPATGCGSGSGGGTPTATGG---SGGTPATGCGGEGVTPQITPQL-----A 200

QY 214 SPTKAAGGSTPVTDHPDPVGSAGIAGNSVAFTSAGANOTVLHDTITVKAGOVFDGKGOT 273  
DB 201 NFNRTSG-----TGSVSDTAGS---TEQAGKINNVKDTIKVGAGEVFDGHGAT 245

QY 274 FTAGSELGCGQSENOKPLFILEDGLASLKNVTMGDDGADGIHLYG-----DAKIDNLHVTN 329  
DB 246 FTADKSMGNGDQGENQKPMFELAEAGATLKNVNLGENEVDGIHVAKNAQAEVTDINVAQN 305

QY 330 VGEDAITVKPNSAGKSHVEITNSSPFEASDKILOLNADTNLSVDNVKAKDFGTFVRTNG 389  
DB 306 VGEDLITVKEGGAATNINIKNSAKGADDDKVQVQLNANTHLKIDNFKADDFGTWVRTNG 365

QY 390 GQO-GNWDNLNLSHISAEDGKFSFVKSDSEGLNVNTSDISLGDVENHY 435  
DB 366 GKQFDDMSTELNGIEANHGKFKALVKSDSDDLKLATGNIAMTDVKHAY 412

RESULT 8  
US-09-880-371-9  
; Sequence 9, Application US/09880371  
; Patent No. US20020059658A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Derocher, Jay  
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC  
; PLANTS  
; FILE REFERENCE: 21829/91  
; CURRENT APPLICATION NUMBER: US/09/880,371  
; CURRENT FILING DATE: 2001-06-13  
; PRIOR APPLICATION NUMBER: 60/211,585  
; PRIOR FILING DATE: 2000-06-15  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 9  
; LENGTH: 424  
; TYPE: PRT  
; ORGANISM: Pseudomonas syringae  
US-09-880-371-9

Query Match 24.2%; Score 559; DB 9; Length 424;  
Best Local Similarity 36.1%; Pred. No. 2e-30;  
Matches 147; Conservative 54; Mismatches 132; Indels 74; Gaps 13;

QY 37 QPIDRTIEQMAQLLAELLKSL---LSPOSNAATGAGGNDQTTGVGNAGGLNGRKG TAG 93  
DB 72 KPNDSSQ--NIAKLI SALIMSLQLMLTNSNKKQDTNQEQPDSQAPFQNNGLG-----122

QY 94 TTPQSDSQNNMLSEWNGNGLDQAITPDGQGGQIGDNPPLKMLKLARMDGOSDQFGQP 153  
DB 123 -TPSADS-----GGGG-----TPDATGGG-GDTP-----SATGGG 151

QY 154 GTGNNSASGTSSSGSGSPFNDLSGKAPSGNSPGNYSVPSTFSPSTPTSPSPLDFFPS 213  
DB 152 GGDTPATGCGSGSGGGTPTATGG---SGGTPATGCGGEGVTPQITPQL-----A 200

QY 214 SPTKAAGGSTPVTDHPDPVGSAGIAGNSVAFTSAGANOTVLHDTITVKAGOVFDGKGOT 273  
DB 201 NFNRTSG-----TGSVSDTAGS---TEQAGKINNVKDTIKVGAGEVFDGHGAT 245

QY 274 FTAGSELGCGQSENOKPLFILEDGLASLKNVTMGDDGADGIHLYG-----DAKIDNLHVTN 329  
DB 246 FTADKSMGNGDQGENQKPMFELAEAGATLKNVNLGENEVDGIHVAKNAQAEVTDINVAQN 305

QY 330 VGEDAITVKPNSAGKSHVEITNSSPFEASDKILOLNADTNLSVDNVKAKDFGTFVRTNG 389  
DB 306 VGEDLITVKEGGAATNINIKNSAKGADDDKVQVQLNANTHLKIDNFKADDFGTWVRTNG 365

QY 390 GQO-GNWDNLNLSHISAEDGKFSFVKSDSEGLNVNTSDISLGDVENHY 435  
DB 366 GKQFDDMSTELNGIEANHGKFKALVKSDSDDLKLATGNIAMTDVKHAY 412

Db 366 GKQFDDMSIELNGIEANHGKFPALVKSDSDLKLATGNIAMTDVKHAY 412

RESULT 9  
US-09-879-248-14  
; Sequence 14, Application US/09879248  
; Patent No. US2002062500A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Hao  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE  
; FILE REFERENCE: 21829/81  
; CURRENT APPLICATION NUMBER: US/09/879,248  
; CURRENT FILING DATE: 2001-06-12  
; PRIOR APPLICATION NUMBER: 60/212,211  
; PRIOR FILING DATE: 2000-06-16  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 14  
; LENGTH: 424  
; TYPE: PRT  
; ORGANISM: Pseudomonas syringae  
US-09-879-248-14

Query Match 24.2%; Score 559; DB 9; Length 424;  
Best Local Similarity 36.1%; Pred. No. 2e-30;  
Matches 147; Conservative 54; Mismatches 132; Indels 74; Gaps 13;

QY 37 QPIDRQTIEQWALLAEILLKSL-----LSPQSNAATGAGGNDDTTGVGNAGGLNKRKG TAG 93  
Db 72 KPNDSSQS--NIAKLISALIMSLLOMLTNSNKKQDTNOEQPD SQAPFNQNGGLG----- 122  
QY 94 TTPOSDSQNMLSENGNGLDQAITPDGGGGGIGDNPLLKAMLKLIARMMDGQSDQFGQP 153  
Db 123 -TPSADS-----GGGG-----TPDATGGGG-GDTP-----SATGGG 151  
QY 154 GTGNNSASSGTSSSGSPFPNDLSGGKAPSGNPSGNYSPVSTFSPPPTTSPTSPLDFPS 213  
Db 152 GGDTPATATGGGGGGGTPTATGG---SGGTPTATGGGGGVTPQITPQL-----A 200  
QY 214 SPYKAACGSTPTVDHPDPVSAGIAGNSVAFTSAGANOTVLHTITV KAGQVDFGKGT 273  
Db 201 NPARTSG-----TGSVSDTAGS----TEAQGINVVKTIKVGAGEVDFGHGAT 245  
QY 274 FTAGSELGGGSGSQENQKPLFLTELGASIKNTVMGDGDGADGIHLXG---DAKIDNLHV TN 329  
Db 246 FTADKSMNGDGQGENQKPMPELAGATLKVNLTGENEVVDGIHVAKAKNAQEVTI DNHAQN 305  
QY 330 VGEDAITVKFNSACKSHVEITNSSFEHASDKIIQLNADTNLSVDNVKAKD FGTFVRTNG 389  
Db 306 VGEDLIIVKGEGBAAVTNLINKNSACKADDKVQLNANTHLKIDNFKADDFGTWRTNG 365  
QY 390 GQQ-GNWDLNLSHSABDGKPFVKVKSDEGLNVNTSIDSLGDVENHY 435  
Db 366 GKQFDDMSIELNGIEANHGKFPALVKSDSDLKLATGNIAMTDVKHAY 412

RESULT 10  
US-10-010-390-9  
; Sequence 9, Application US/10010390  
; Publication No. US20030104979A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Leon, Ernesto  
; APPLICANT: Oviedo, Augustin  
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED  
; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS  
; FILE REFERENCE: 21829/111  
; CURRENT APPLICATION NUMBER: US/10/010,390  
; CURRENT FILING DATE: 2001-11-05  
; PRIOR APPLICATION NUMBER: 60/248,169  
; PRIOR FILING DATE: 2000-11-13

QY 94 TTPQSDSNLSEMGNNGLDQAITPDGCGGQIGDNPLLKAMLKLIARMMDGSDQFGOP 153  
DB 123 -TPSADS-----GGGG-----TPDATGGGG-GDTP-----SATGGG 151  
QY 154 GTGNNSASGTSSSGSGSPNDLSGGKAPSGNSPVGNSPVSTFSPPTSTPTSPDLPFS 213  
DB 152 GGDTPATATGGGSGGGTPTATGGG---SGGTPTATGGGEGGVTPQITPQL-----A 200  
QY 214 SPTKAAGSTPVTDPDPVGSAGIGAGNSVAFTSAGANQTVLHDITTVKAGOVFDGKGOT 273  
DB 201 NPNRTSG-----TGSVSDTAGS-----TEQAGKINVVKDTIKVGAGEVFDHGAT 245  
QY 274 FTAGSELGDSGSENOKPLFILEDGASLKNVTMGDDGADGIHLG-----DAKIDNLHVTN 329  
DB 246 FTADKSMGNDGSENOKPMFELAEAGATLKNVNLGENEVDGIHVAKNAQEVITDINVHAQN 305  
QY 330 VGEDAITVKPNSAGKSHVEITNSSFEHASDKILOLNADTNLSVDNVKAKDFTGTVRTNG 389  
DB 306 VGEDLITVKGEGGAAVTNLNKNSAKGADDKVQVQNLNANTHLKIDNFKADDFGTWVRNG 365  
QY 390 GQO-GNWDNLNLSHAEDCKFSFKVSDSEGLNVNTSDISLGDVENHY 435  
DB 366 GKQPDMSIELNGIEANHGKFAVKSDSDDLKLATGNIAMTVDVKHAY 412

## RESULT 12

US-10-847-142-9

; Sequence 9, Application US/10847142

; Publication No. US20040265442A1

; GENERAL INFORMATION:

; APPLICANT: Wei, Zhong-Min

; APPLICANT: Qiu, Dewen

; APPLICANT: Remick, Dean

; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE

; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR

; TITLE OF INVENTION: DESICCATION

; FILE REFERENCE: 21829/197

; CURRENT APPLICATION NUMBER: US/10/847,142

; CURRENT FILING DATE: 2004-05-17

; PRIOR APPLICATION NUMBER: 60/1198,359

; PRIOR FILING DATE: 2000-04-19

; PRIOR APPLICATION NUMBER: 09/835,684

; PRIOR FILING DATE: 2001-04-16

; NUMBER OF SEQ ID NOS: 12

; SOFTWARE: Patent In Ver. 2.1

; SEQ ID NO 9

; LENGTH: 424

; TYPE: PRT

; ORGANISM: Pseudomonas syringae

US-10-847-142-9

## Query Match

Best Local Similarity 24.2%; Score 559; DB 16; Length 424;

Matches 147; Conservative 54; Mismatches 132; Indels 74; Gaps 13;

QY 37 QPIDRTIQMQLLAELKSL---LSPSGNAATGAGGNDQTTGVNAGGNGRKGITAG 93  
DB 72 KENDSQS--NIAKLISALIMSLQMLTNNSKKQDNTNQEQDQAPFQNNGGIG-----122  
QY 94 TTPQSDSNLSEMGNNGLDQAITPDGCGGQIGDNPLLKAMLKLIARMMDGSDQFGOP 153  
DB 123 -TPSADS-----GGGG-----TPDATGGG-GDTP-----SATGGG 151  
QY 154 GTGNNSASGTSSSGSGSPNDLSGGKAPSGNSPVGNSPVSTFSPPTSTPTSPDLPFS 213  
DB 152 GGDTPATATGGGSGGGTPTATGGG---SGGTPTATGGGEGGVTPQITPQL-----A 200  
QY 214 SPTKAAGSTPVTDPDPVGSAGIGAGNSVAFTSAGANQTVLHDITTVKAGOVFDGKGOT 273  
DB 201 NPNRTSG-----TGSVSDTAGS-----TEQAGKINVVKDTIKVGAGEVFDHGAT 245  
QY 274 FTAGSELGDSGSENOKPLFILEDGASLKNVTMGDDGADGIHLG-----DAKIDNLHVTN 329

DB 246 FTADKSMGNDGSENOKPMFELAEAGATLKNVNLGENEVDGIHVAKNAQEVITDINVHAQN 305  
QY 330 VGEDAITVKPNSAGKSHVEITNSSFEHASDKILOLNADTNLSVDNVKAKDFTGTVRTNG 389  
DB 306 VGEDLITVKGEGGAAVTNLNKNSAKGADDKVQVQNLNANTHLKIDNFKADDFGTWVRNG 365  
QY 390 GQO-GNWDNLNLSHAEDCKFSFKVSDSEGLNVNTSDISLGDVENHY 435  
DB 366 GKQPDMSIELNGIEANHGKFAVKSDSDDLKLATGNIAMTVDVKHAY 412

## RESULT 13

US-10-156-761-13910

; Sequence 13910, Application US/10156761

; Publication No. US20030119018A1

; GENERAL INFORMATION:

; APPLICANT: OMURA, SATOSHI

; APPLICANT: IKEDA, HARUO

; APPLICANT: ISHIKAWA, JUN

; APPLICANT: HORIKAWA, HIROSHI

; APPLICANT: SHIBA, TADAYOSHI

; APPLICANT: SAKAKI, YOSHIYUKI

; APPLICANT: HATTORI, MASAHIRA

; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES

; FILE REFERENCE: 249-262

; CURRENT APPLICATION NUMBER: US/10/156,761

; CURRENT FILING DATE: 2002-05-29

; PRIOR APPLICATION NUMBER: JP 2001-204089

; PRIOR FILING DATE: 2001-05-30

; PRIOR APPLICATION NUMBER: JP 2001-272697

; PRIOR FILING DATE: 2001-08-02

; NUMBER OF SEQ ID NOS: 15109

; SEQ ID NO 13910

; LENGTH: 276

; TYPE: PRT

; ORGANISM: Streptomyces avermitilis

US-10-156-761-13910

## Query Match

Best Local Similarity 11.1%; Score 256; DB 14; Length 276;

Matches 76; Conservative 35; Mismatches 87; Indels 42; Gaps 7;

QY 225 VTDHPDPVGS---GIGAGNSVA---FTSAGANQTVLHDT-----ITVKAGOVFDGKGQ 272  
DB 15 VTKRAVIGSAAALGLTAGALVTTLLSSAGAATSWPEATGSKAVSSTIEVSGTYDGKLIK 74  
QY 273 TPTAGSELGDSGQSENQKPLFILEDGASLKNVTMGDDGADGIHLGADAKIDNLHVTNVCE 332  
DB 75 KPSGSGDLGTADQSDQSDQGLFELEDGAVLKNVIGTTPAADGVHCLGSCCTLQNVWMLDVG 134  
QY 333 DAITVKPNSAGKSHVEITNSSFEHASDKILOLNADTNLSVDNVKAKDFTGTVRTNGGQO 392  
DB 135 DAASPKSS--SATYKVIKGGAGKASDKVLOFNAGILTVTGQVFNPKLVRSNGCK 192  
QY 393 GNWDNLNLSHAEDCKFSFKVSDSE-----GLNVNTSDISL-----GDVENHYK 436  
DB 193 TQY-----KRTVLSLIDATAPGKALVGNINSYNGTATLSRIRIHGDTKKLIK 240

## RESULT 14

US-10-122A-64405

; Sequence 64405, Application US/10282122A

; Publication No. US20040029129A1

; GENERAL INFORMATION:

; APPLICANT: Wang, Liangsu

; APPLICANT: Zamudio, Carlos

; APPLICANT: Malone, Cheryl

; APPLICANT: Haselbeck, Robert

; APPLICANT: Ohlsen, Kari

; APPLICANT: Zyskind, Judith

; APPLICANT: Wall, Daniel

; APPLICANT: Trawick, John

; APPLICANT: Carr, Grant

```

; APPLICANT: Yanamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282.122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 64405
; LENGTH: 1306
; TYPE: PR1
; ORGANISM: Mycobacterium tuberculosis
US-10-282-122A-64405

Query Match      8.6%; Score 199.5; DB 15; Length 1306;
Best Local Similarity 26.0%; Pred. No. 6.2e-05;
Matches 88; Conservative 16; Mismatches 122; Indels 113; Gaps 11;

QY      8  NNTSSSPGLFQSGDNGLGGHNANSALGOQPIDRQTTEOMAQLLAELLKSLSPQSGNAA 67
Db      754  NGVAGSGPGGAGGDDGTGGVGGNGRGRIGDAGGAT-----G----- 789

QY      68  TGAGGNDQTTGVGNAGGLNGRKGTAGTTTQSDSNQMLSEMNGNGLDQAITPDGOGGQIG 127
Db      790  --AGARQDGGAGGAGGKGRGGTGGP-----GGAGPAGTTGSGAGNG 832

QY      128  DNPLLKAWLKLIAARMDDQSDQFQOPGTGNNSASGTTSSCGSPFNDLSGKA-PSGNSP 186
Db      833  -----GSGGTGDPDGGNGANGSVFTNNGIGGNGGNGNAGPSGAGG 875

QY      187  SGNYSPVSTSPSPPTPTSPISPL-----DPPSPTKAAG-----G 221
Db      876  SGGAG--STFG-----ATGSSSSIHVNGNGNGNGNDHALSGNAAAGNGNGNGSLRG 929

QY      222  STPVTDPDPVGSAGIGAGNSVAFTSAGANQTVLHDTITVXAGOVFDGKGQTFTAGSELG 281
Db      930  SGGAGGGGNGGNASRGMGDDGTGGAGGN-----AGQING-----GAGGNGG 973

QY      282  DGGQSENQKPLFIL-----EDGASLKNTVTMGDDGADG 313
Db      974  DGGTGSNGNPGAITSGSGRGGDGGVGGGGSVAGDGADG 1012

RESULT 15
US-10-282-122A-64726
; Sequence 64726, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl

```

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1  APPLICANT: Haselbeck, Robert
2  APPLICANT: Ohlsen, Kari
3  APPLICANT: Zyskind, Judith
4  APPLICANT: Wall, Daniel
5  APPLICANT: Trawick, John
6  APPLICANT: Carr, Grant
7  APPLICANT: Yamamoto, Robert
8  APPLICANT: Forsyth, R.
9  APPLICANT: Xu, H.
10 TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
11 FILE REFERENCE: ELITRA.034A
12 CURRENT APPLICATION NUMBER: US/10/282,122A
13 CURRENT FILING DATE: 2003-02-20
14 PRIOR APPLICATION NUMBER: 60/191,078
15 PRIOR FILING DATE: 2000-03-21
16 PRIOR APPLICATION NUMBER: 60/206,848
17 PRIOR FILING DATE: 2000-05-23
18 PRIOR APPLICATION NUMBER: 60/207,727
19 PRIOR FILING DATE: 2000-05-26
20 PRIOR APPLICATION NUMBER: 60/230,335
21 PRIOR FILING DATE: 2000-09-06
22 PRIOR APPLICATION NUMBER: 60/230,347
23 PRIOR FILING DATE: 2000-09-09
24 PRIOR APPLICATION NUMBER: 60/242,578
25 PRIOR FILING DATE: 2000-10-23
26 PRIOR APPLICATION NUMBER: 60/253,625
27 PRIOR FILING DATE: 2000-11-27
28 PRIOR APPLICATION NUMBER: 60/257,931
29 PRIOR FILING DATE: 2000-12-22
30 PRIOR APPLICATION NUMBER: 60/267,636
31 PRIOR FILING DATE: 2001-02-09
32 PRIOR APPLICATION NUMBER: 60/269,308
33 PRIOR FILING DATE: 2001-03-16
34 Remaining Prior Application data removed - See File Wrapper or PALM.
35 NUMBER OF SEQ ID NOS: 78614
36 SOFTWARE: PatentIn version 3.1
37 SEQ ID NO 64726
38 LENGTH: 694
39 TYPE: PRT
40 ORGANISM: Mycobacterium tuberculosis
41 US-10-282-122A-64726

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Query Match      8.4%; Score 193; DB 15; Length 694;
Best Local Similarity 25.4%; Pred. No. 7.9e-05;
Matches 86; Conservative 28; Mismatches 140; Indels 84; Gaps 14;

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DB      256 QTGGDGTGGHGTACTPTGGTGCGAT-----ATAGSGKATGGAGGDGT 300

QY      77 TGVGNAGLNGRKGTACTTPQSDSQNNMLSEWNNGLDOAITPDQGQGGQIGDNPLLKAML 136
DB      301 AAAGGGGNGDGGA----QGDIAGFGDGGNGSDVAAGSGGSGGAGGG---AFV 352

QY      137 KLITARMMDGOSDFGPCTGNNASSTCT--SSSGSGSPENDLSGGK--APSGNSPSGNYSPV 193
DB      353 HIATATSTGSGGFG--GNGAAAGSADGCGAGGAGGAGGALLFDGGNGGAGGAGGI 410

QY      194 STFSPPSTPTSPLDPFSPSPKAAGGSTPVT--DHDPD-----VGSAG 236
DB      411 GG-----DGATGGPGSGGAGIARFDSPDPEAEPDVVGGKGDDGKGGSG 456

QY      237 IGAGNSVAFTSAGANQTVLHDTITVRAGVFDPKGQTFTAGSELCDGQSQSENQPLFILE 296
DB      457 LGVGGAGGTGGAGNG-----GAGGULLFGNGGN---GGNAGAGG-----D 493

QY      297 DGASLNVTMGDDGADGCIHLGYDAKIDNL-HVTNVGSD 333
DB      494 GGAGVGCVGGGGGGTATFHEDPVAGVWAVGGVGVD 531

Search completed: July 27, 2005, 14:53:27
Job time : 166 secs

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Search completed: July 27, 2005, 14:53:27  
Job time : 166 secs





GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: July 29, 2005, 13:10:34 ; Search time 225 Seconds  
(without alignments)  
9774.026 Million cell updates/sec

Title: US-09-596-958A-1  
Perfect score: 1344  
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Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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5: /cgn2\_6/ptodata/1/ina/PTOTUS\_COMB.seq.\*  
6: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1344	100.0	1344	3	US-09-120-927-1
2	1344	100.0	1344	4	US-09-431-614-5
3	155.2	11.5	1729	3	US-09-120-817-1
4	155.2	11.5	1729	4	US-09-431-614-13
5	94.8	7.1	591	3	US-09-402-668-1
6	74.2	5.5	666	3	US-09-198-956-3
7	74.2	5.5	666	3	US-09-670-141-3
8	58.6	4.4	185	3	US-09-402-668-9
9	45.8	3.4	7218	1	US-08-232-463-14
10	43.2	3.2	7218	1	US-08-232-463-14
11	42.8	3.2	1166	3	US-09-072-596-323
12	42.8	3.2	1166	4	US-09-072-596-328
13	39.4	2.9	304533	4	US-09-949-016-15371
14	39.4	2.9	304533	4	US-09-949-016-15372
15	39	2.9	601	4	US-09-949-016-127761
16	39	2.9	601	4	US-09-949-016-128098
17	38	2.8	1371	4	US-09-489-039A-1161
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20	37.4	2.8	2371	2	US-08-343-443B-1
21	37.4	2.8	35784	4	US-09-949-016-16785
22	37.4	2.8	35784	4	US-09-949-016-16786
23	37	2.8	198632	4	US-09-949-016-12781
24	37	2.8	198632	4	US-09-949-016-17393
25	36.8	2.7	810	4	US-09-902-540-5083
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27	36.8	2.7	28194	4	US-09-902-540-1250

C 28	36.8	2.7	4403765	3	US-09-103-840A-2	Sequence 2, Appli
C 29	36.8	2.7	4411529	3	US-09-103-840A-1	Sequence 1, Appli
C 30	36.6	2.7	1464	4	US-09-902-540-2748	Sequence 2748, Ap
C 31	36.6	2.7	17862	4	US-09-902-540-1130	Sequence 1130, Ap
C 32	36.6	2.7	17882	4	US-09-949-016-16723	Sequence 16723, A
C 33	36.6	2.7	194937	4	US-09-949-016-17032	Sequence 17032, A
C 34	36.4	2.7	194937	4	US-09-949-016-17033	Sequence 17033, A
C 35	36.2	2.7	300	4	US-09-583-110-2559	Sequence 2559, Ap
C 36	36.2	2.7	400	3	US-08-961-083-187	Sequence 187, App
C 37	36.2	2.7	400	4	US-09-536-784-187	Sequence 187, App
C 38	36.2	2.7	462	4	US-09-107-433-1648	Sequence 1648, Ap
C 39	36.2	2.7	633	4	US-09-583-110-2558	Sequence 2558, Ap
C 40	36.2	2.7	1482	4	US-09-902-540-6511	Sequence 6511, Ap
C 41	36.2	2.7	2581	4	US-09-902-540-472	Sequence 472, App
C 42	36.2	2.7	3510	3	US-08-961-527-53	Sequence 53, Appl
C 43	35.8	2.7	289	3	US-09-007-005-17	Sequence 17, Appl
C 44	35.8	2.7	289	3	US-09-244-796-17	Sequence 17, Appl
C 45	35.8	2.7	1776	4	US-09-252-991A-9406	Sequence 9406, Ap

ALIGNMENTS

RESULT 1  
US-09-120-927-1  
; Sequence 1, Application US/09120927  
; Patent No. 6262018  
; GENERAL INFORMATION:  
; APPLICANT: Kim, Jihyun Francis  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FROM  
; TITLE OF INVENTION: ERWINIA AMYLOVORA AND ITS USE  
; NUMBER OF SEQUENCES: 3  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: P. O. Box 1051, Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/120,927  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA: US 60/055,108  
; APPLICATION NUMBER: 06-AUG-1977  
; FILING DATE: 06-AUG-1977  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1581  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1344 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
US-09-120-927-1

claims are  
problem

Query Match 100.0%; Score 1344; DB 3; Length 1344;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 1 ATGTCAATCTTACGCTTAACAACAATACCTGCTCGCGGGTCTGTTCCAGTCCGG 60  
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Db 121 CGGCAAAACCATGAGCAAAATGGCTCAATTAATGCGCGAACTGTTAAAGTCACTGCTATCG 180  
QY 181 CCACAATCAGGTAATGCGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 240  
Db 181 CCACAATCAGGTAATGCGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 240  
QY 241 AAGCTGCGGCGCTGAACGCAAGAAAGGACAGAGCAAGCAACCACTCGGAGTCTGACAGT 300  
Db 241 AAGCTGCGGCGCTGAACGCAAGAAAGGACAGAGCAAGCAACCACTCGGAGTCTGACAGT 300  
QY 301 CAGAACATGCTGAGTGGGCAACAACCGGCTGGATCAGGCCATCACGCCGATGCG 360  
Db 301 CAGAACATGCTGAGTGGGCAACAACCGGCTGGATCAGGCCATCACGCCGATGCG 360  
QY 361 CAGGCGGCGGCGAGATCGCGGATAATCCTTTACTGAAAGCCATGCTGAAGCTTATTGCA 420  
Db 361 CAGGCGGCGGCGAGATCGCGGATAATCCTTTACTGAAAGCCATGCTGAAGCTTATTGCA 420  
QY 421 CGCATGATGACGCCCAACGAGTACGTTGGCAACCTGGTACGGGCAACAACAGTGGC 480  
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QY 481 TCTTCGGGTACTTCTTCATCTGCGGCTTCCCTTTTAAAGATCTATCAGGGGGAGGCG 540  
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QY 541 CCTTCGGGCAACTCCCTTCCGCAACTACTCTCCGTCAGTACCTTCTCACCCCATCC 600  
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QY 721 AATTGGGTGGCTTACACGCGCGGCTTAATCAGACCGTGTGATGACACCATTAAC 780  
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QY 781 GTGAAAGCGGTGAGGTGTTGATGCAAGGCAACCTTACCGCGGTTCAGAAATTA 840  
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QY 1321 GCCAACCTGAAGGTGGCTGAATGA 1344  
Db 1321 GCCAACCTGAAGGTGGCTGAATGA 1344

RESULT 2

US-09-431-614-5  
; Sequence 5, Application US/09431614  
; Patent No. 6624139  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Schading, Richard L.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS  
; TITLE OF INVENTION: RESISTANCE  
; FILE REFERENCE: 21829/41 (BBC-003)  
; CURRENT APPLICATION NUMBER: US/09/431,614  
; EARLIER FILING DATE: 1999-11-02  
; EARLIER APPLICATION NUMBER: 60/107,243  
; EARLIER FILING DATE: 1998-11-05  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 1344  
; TYPE: DNA  
; ORGANISM: Erwinia amylovora  
US-09-431-614-5

Query Match 100.0%; Score 1344; DB 4; Length 1344;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 ATGTCAATCTTACGCTTAACAACAATACCTGCTCGCGGGTCTGTTCCAGTCCGGG 60  
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web of things  
problem

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 DB 961 AATATAGACATCTGACGTCATCAACGCTGGTGAGGACCGGATACCGTTAAGCCAAAC 1020  
 QY 1021 AGCGGGGCAAAAAATCCACGTTGAAATCACTAACAGTTTCTTCGAGACCGCTCTGAC 1080  
 DB 1021 AGCGGGGCAAAAAATCCACGTTGAAATCACTAACAGTTTCTTCGAGACCGCTCTGAC 1080  
 QY 1081 AAGATCTCGAGCTGAATGCGGATCTAACTGAGCGTTGACAACTGTAAGGCGCAAGAC 1140  
 DB 1081 AAGATCTCGAGCTGAATGCGGATCTAACTGAGCGTTGACAACTGTAAGGCGCAAGAC 1140  
 QY 1141 TTTGGTACTTTGTACGCACTAACCGGCGGTCAACAGGGTAACTGGGATCTGAATCTGAGC 1200  
 DB 1141 TTTGGTACTTTGTACGCACTAACCGGCGGTCAACAGGGTAACTGGGATCTGAATCTGAGC 1200  
 QY 1201 CATATACGCGCAGAAAGCGTAACTTCTGTTTAAAGCGATACGAGGGGCTAAAC 1260  
 DB 1201 CATATACGCGCAGAAAGCGTAACTTCTGTTTAAAGCGATACGAGGGGCTAAAC 1260  
 QY 1261 GTCAATACCAAGTATCTCACTGGGTGATGTTGAAACCACTACAAAGTGGCGATGCC 1320  
 DB 1261 GTCAATACCAAGTATCTCACTGGGTGATGTTGAAACCACTACAAAGTGGCGATGCC 1320  
 QY 1321 GCCAACCTGAAGTGGCTGAATGA 1344  
 DB 1321 GCCAACCTGAAGTGGCTGAATGA 1344

RESULT 3

US-09-120-817-1  
 ; Sequence 1, Application US/09120817  
 ; Patent No. 6172184  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Collmer, Alan  
 ; APPLICANT: Charkowski, Amy  
 ; APPLICANT: Alfano, James R.

; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FROM  
 ; TITLE OF INVENTION: PSEUDOMONAS SYRINGAE AND ITS USE  
 ; NUMBER OF SEQUENCES: 8  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
 ; STREET: P.O. Box 1051, Clinton Square  
 ; CITY: Rochester  
 ; STATE: New York  
 ; COUNTRY: U.S.A.  
 ; ZIP: 14603  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/120,817  
 ; FILING DATE:  
 ; CLASSIFICATION:  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 60/055,107  
 ; FILING DATE: 06-AUG-1997  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Goldman, Michael L.  
 ; REGISTRATION NUMBER: 30,727  
 ; REFERENCE/DOCKET NUMBER: 19603/1741  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (716) 263-1304  
 ; TELEFAX: (716) 263-1600  
 ; INFORMATION FOR SEQ ID NO: 1:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 1729 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: DNA (genomic)  
 ; US-09-120-817-1

Query Match 11.5%; Score 155.2; DB 3; Length 1729;  
 Best Local Similarity 57.1%; Pred. No. 3.2e-39;  
 Matches 330; Conservative 0; Mismatches 233; Indels 15; Gaps 2;  
 QY 745 GCGCTAATCAGACGGTGTGTCATGACACCATTAACGTTAAAGCGGTGAGTTTGTAT 804  
 DB 1079 GCGGCAAGATCAATGTGTGAAGACACCATCAAGTGGCGCTGGCGAAGTCTTTGAC 1138  
 QY 805 GGCAGGAGCAAACTTCCACCGCGGTTTCAAGATTAGCGATCGCGGCGAGTCTGAAAC 864  
 DB 1139 GGCACGGCGCACTTCTACTGCGGACAAATCTATGGTTAACGGACACGCGGCAAAAT 1198  
 QY 865 CAGAAACCGCTGTTTATCTGGAAGACGGTGCAGCTGAAACACGTCACCATGGGCGAC 924  
 DB 1199 CAGAACCCATGTTTCGAGCTGGCTGAAGCGCTACGTTGAAGAAATGTGAACCTGGGTGAG 1258  
 QY 925 GACGGGCGGATGTTATCTTTTACG-----GTGATGCAAAATAGACAAT 972  
 DB 1259 AACGAGTGCATGCGATCCACGCTGAAAGCCAAACGCTCAGGAAGTCACTTTGACAC 1318  
 QY 973 CTGACGTCACCAACGCTGGGTGAGGACGGATTACGTTAAGCCAAACACGCGGGGCAAA 1032  
 DB 1319 GTGCATGCCAGAACGTCGTTGAACCTGATTACGTTAAAGCGGAGGAGGCGGACG 1378  
 QY 1033 AATCCACGTTGAAATCACTAACAGTTCCTTCGACACGCTCTTGACAAAGATCTCTGAG 1092  
 DB 1379 GTCACATACTGAACATCAAGACACGAGTGCCTCAAGAGTGCAGACGACAGGTTGTCAG 1438  
 QY 1093 CTGAATGCCGATCACTAACCTGACGCTTGACAACTGAGCCAAAGACTTTGTACTTTT 1152  
 DB 1439 CTCAAGCCCAACACTCACTTTGAAATCGACAACCTTCAAGGCCGACGATTTTCGACGATG 1498  
 QY 1153 GTACGCACTAAACGCGGCTCAACAG---GGTAACTGGGATCTGAATCTGAGCCATATCAGC 1209  
 DB 1499 GTTCGCCCAACCGTGGCAGCAGTTTGTATGATGACATGAGCATGAGCTGACGCAATCGAA 1558

Qy	1210	GCAGAGACGGTAAAGTTCTTCGTTCTGTTTAAAGCGATACGAGGGGCTAAACGTCAATACC	1269
Db	1559	GCTTAACCA CGGCAAGTTTCGCCCTGGTGAAGACACAGTGCATCTGAAGCTGGCAACG	1618

**Qy** 1270 AGTGATATCTCACTGGGTGATTTGAAAACCACTACAA 1307  
| | | | |  
**Db** 1619 GGCAACATCGCCCATGACCGAGTCAAACACGCCTACGA 1656  
| | | | |

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RESULT 4
US-09-431-614-13
; Sequence 13, Application US/09431614
; Patent No. 6624139
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Schading, Richard L.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS
; TITLE OF INVENTION: RESISTANCE
; FILE REFERENCE: 21829/41 (EBC-003)
; CURRENT APPLICATION NUMBER: US/09/431.614
; CURRENT FILING DATE: 1999-11-02
; EARLIER APPLICATION NUMBER: 60/107,243
; EARLIER FILING DATE: 1998-11-05
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
; LENGTH: 1729
; TYPE: DNA
; ORGANISM: Pseudomonas syringae
US-09-431-614-13

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Query Match	11.5%	Score 155.2	DB 4	Length 1729
Best Local Similarity	57.1%	Pred. No. 3.2e-39		
Matches 330	Conservative 0	Mismatches 233	Indels 15	Gaps 2
QY	745	GGCGCTAATCAGACGGGTCTGCATGACACCAATTACCGTGAAGCGGGTCAGGTGTTTGAT	804	
Db	1079	GCGGCGAAGATCAATGTGGTGAAGACACCAATCAGGTGCGGCTGCGGAAGTCTTTTGAC	1138	
QY	805	GGCAAAAGGACAAACCTTCACCGCGGTTTCAGAAATTAGCGGATGCGGCCAGTCTGAAAC	864	
Db	1139	GGCCACGGCGCAACCTTCACCTGCGCGACAAATCTATGGGTAACGAGACACGAGCGCAAAAT	1198	
QY	865	CAGAAACCGCTGTTTATCTGGAAGACGGTGCACGCTGAAAACGCTCACCATTGGGGCAG	924	
Db	1199	CAGAAGCCCATGTTTCGAGTGGTGTGAAGCGCTACGTTGAAGAAATGTGAACCTGGGTGAG	1258	
QY	925	GACGGGCGGATGGTATTTCATCTTTACG-----GTGATGCCAAAATAGACAAT	972	
Db	1259	AACGAGGTGATGGCATCCAGTGAAGCCAAAAACGCTCAGGAGTCCACCTTGACAC	1318	
QY	973	CTCACGCTCACCAACGTGGGTGAGGACGCGATTACCGTTAAGCCCAAACAGCGGGGCAAA	1032	
Db	1319	GTGCATGCCAGAAACGTGCGGTGAAGACCTGATTACGGTCAAAGCGAGGAGGCGCAGCG	1378	
QY	1033	AAATCCCAAGTTGAAATCACTAACAGTTCCTTCGAGCACGCGCTCTGACACAGATCTTCGAG	1092	
Db	1379	GTCACTAATCTGAACATCAAGAACAGCAGGTGCCAAAGGTCGACACGCAAGGTTGTCCAG	1438	
QY	1093	CTCAATGCCGATACTAACCTGAGCGTTGACAAACGTGAAGGCCAAAGACTTTGGTACTTTT	1152	
Db	1439	CTCAAAGCCCAACTCACTTGAAATTCGACAACTTCAAGGCCGACGATTTCCGCAAGATG	1498	
QY	1153	GTACGCACATAACCGCGGTCAACAG---GGTAACTTGGGATCTGAATCTGAGCCATATACGC	1209	
Db	1499	GTTTCGACCAACACGGTGGCAAGCAGTTTGATGATCATGAGCATCGAGCTGAACGGCATCGAA	1558	
QY	1210	GCAGAGACGGTAAGTCTCGTTTAAAGCGATAGCCAGGGGCTAAACGTCATATACC	1269	
Db	1559	GCTAACACCGCAAGTTTCGCCCTGGTGAAGCGACAGTCAACGATCTGAAGCTGGCAACG	1618	
QY	1270	AGTGATATCTCACTGGGTGATGTTGAAAAACCACTTACAA	1307	

Db 1619 GGCAACATCGCCCATGACCGACGTCAAACACGCCCTACGA 1656

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RESULT 5
US-09-402-668-1
; Sequence 1, Application US/09402668
; Patent No. 6172030
; GENERAL INFORMATION:
; APPLICANT: WADA, Yasunao
; APPLICANT: KASAI, Miyuki
; APPLICANT: SHIKATA, Shitsuw
; APPLICANT: SUZUMATSU, Atsushi
; APPLICANT: KOIKE, Kenzo
; APPLICANT: HATADA, Yuji
; APPLICANT: KOBAYASHI, Tohru
; APPLICANT: ITO, Susumu
; APPLICANT: TSUMADORI, Masaki
; TITLE OF INVENTION: Detergent Composition
; FILE REFERENCE: 2173-0116P
; CURRENT APPLICATION NUMBER: US/09/402,668
; CURRENT FILING DATE: 1998-10-08
; PRIOR APPLICATION NUMBER: 9-091142 JAPAN
; PRIOR FILING DATE: 1997-04-09
; PRIOR APPLICATION NUMBER: 9-242736 JAPAN
; PRIOR FILING DATE: 1997-09-08
; PRIOR APPLICATION NUMBER: PCT/US98/01613
; PRIOR FILING DATE: 1998-04-09
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 591
; TYPE: DNA
; ORGANISM: Bacillus sp.
; FEATURE:
; OTHER INFORMATION: Strain: KSM-PL5
; NAME/KEY: CDS
; LOCATION: (1)..(591)
US-09-402-668-1

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Query Match	7.1%;	Score 94.8;	DB 3;	Length 591;
Best Local Similarity	52.8%;	Pred. No. 5.8e-20;		
Matches 263;	Conservative 0;	Mismatches 217;	Indels 18;	Gaps 2;
QY	754	CAGACGGTGTGTCATGACACACATTCACCGTGAAAGCGGGTCAGGTGTTGTATGCGCAAGGA	813	
DB	4	CCGACGGTCGTTTCATGAACGATTCGTGTGCTCCCGTCAGACGTTTGACGGNAAGGG	63	
QY	814	CAAAACCTTCACCGCGGTTTCAGAAA---ATTAGGCGATGGCGGCCGAGCTGTGAACACCGAGAA	870	
DB	64	CAGACCTATGTGGCTAATCCGAATACATTTGGGGGACGGATCGCAGGCGGAGAAATCAGAAG	123	
QY	871	CCGCTGCTTTATCTGAAGAAGCGTGCAGCGCTCAAAAAACGTCAACCATGGGCGCAGACGGG	930	
DB	124	CCGATCTTTTCGTCTGAGAGCTGGGGCAGCGCTGAAAAATGTAGTGATTTGGCGTCTCTGCC	183	
QY	931	CGCGATGGTATTTCATCTTTACCGTGTATGCCAAAAATAGACAATCTGCACGCTCACCAACG	990	
DB	184	GCTGACGGGTGCACCTGCTACGGGGATGTGACGATTACAAATGTCATCTCGGAGGATGTT	243	
QY	991	GGTGAGGACGCGATTACCGTTTAAAGCCAAACAGCGCGGGGCAAAAAATCCCAAGTTGAATC	1050	
DB	244	GGTGAGGATGCGCTGACGCTTAATCGTCGGAAACG-----GTGAACATC	288	
QY	1051	ACTAACAGTTTCCTTCGAGCAGCGCTCTGCAAGATCTCTGAGCTGAATGCCGATACCTAAC	1110	
DB	289	TCGGCGGGCGCACCTTCAAGGCGTATGACAAGGTGTTCCAAATCAATGACGCGGGGACG	348	
QY	1111	CTGAGGTTGCAAAACGTGAAGGCCAAAGACTTTGGTATCTTTGTACGCACTAACGCGGCT	1170	
DB	349	ATCAACATTCGTAACTTCACGGGCGGATGATCAGGAAAGCTGGTTTCGGCGAAGACGGAGGC	408	
QY	1171	CAACAGGGTAACCTGGGATCTGAACTCTGAGCCATATCAGCGCAGAAACGGTAAGTTCTCG	1230	

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Db 409 ACACCTACAAGTGGTGAACGTCGAAACCTGCAACATTTCCAGAGTGAAGGATGCG 468
Qy 1231 TTCGTTAAAGCGCATACG 1248
Db 469 ATCTGTGAACGGGACACG 486

RESULT 6
US-09-198-956-3
; Sequence 3, Application US/09198956
; Patent No. 6165769
; GENERAL INFORMATION:
; APPLICANT: Andersen, Lene N.
; APPLICANT: Schulein, Martin
; APPLICANT: Lange, Niels Erik K.
; APPLICANT: Bjornvad, Mads E.
; APPLICANT: Schnorr, Kirk
; TITLE OF INVENTION: Pectin Degrading Enzymes From Bacillus
; TITLE OF INVENTION: Licheniformis
; FILE REFERENCE: 5377-200-US
; CURRENT APPLICATION NUMBER: US/09/198,956
; CURRENT FILING DATE: 1998-11-24
; EARLIER APPLICATION NUMBER: 1344/97
; EARLIER FILING DATE: 1997-11-24
; EARLIER APPLICATION NUMBER: 60/067,240
; EARLIER FILING DATE: 1997-12-02
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Fast-SEQ for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 666
; TYPE: DNA
; ORGANISM: Bacillus licheniformis
US-09-198-956-3

Query Match 5.5%; Score 74.2; DB 3; Length 666;
Best Local Similarity 55.7%; Pred. No. 3e-13;
Matches 142; Conservative 0; Mismatches 113; Indels 0; Gaps 0;

Qy 759 GGTGCTGCATGACACCATTAACCGTGAAGCGGTGTCAGGTGTTGATGGCAAGGACAAAC 818
Db 90 GGTGCTGCATGACAAACGATCGTAGTCGAGAAAGGCCAAACGATATGACGGAAGGCAAGCG 149
Qy 819 CTTCACCGCGGTTTCAGATTAGCGATGCGGCGCAGTCTGAAAACGAGAACCGCTGTT 878
Db 150 GCTGATTGCGAGTCCGAGCTCGGGACGCGCAGCAACGCGAGGATCAAAAACCGATTTT 209
Qy 879 TATCTGGAAGACGTCACCGCTGAAACCGTCACCATGGCGCAGCAGCGGGCGGATGG 938
Db 210 CAAAGTGGAGGATGGTGCAACGCTCAAAAATGTCGTCTGGCGCTCCTGCTGATGG 269
Qy 939 TATTCACTTTTACGGTGATGCAAAATAGACAATCTGCACGTCAACCAACGTTGGGTGAGGA 998
Db 270 TGTTCACATATGAAACGCTTCCATAAACAACGTTGTTGGAGAGATGTCGCGGAGA 329
Qy 999 CGGATTACCGTTAA 1013
Db 330 TGCCTTGACTGTCAA 344

RESULT 7
US-09-670-141-3
; Sequence 3, Application US/09670141
; Patent No. 6429000
; GENERAL INFORMATION:
; APPLICANT: Andersen, Lene N.
; APPLICANT: Schulein, Martin
; APPLICANT: Lange, Niels Erik K.
; APPLICANT: Bjornvad, Mads E.
; APPLICANT: Schnorr, Kirk
; TITLE OF INVENTION: Pectin Degrading Enzymes From Bacillus
; TITLE OF INVENTION: Licheniformis
; FILE REFERENCE: 5377-200-US

Query Match 5.5%; Score 74.2; DB 3; Length 666;
Best Local Similarity 55.7%; Pred. No. 3e-13;
Matches 142; Conservative 0; Mismatches 113; Indels 0; Gaps 0;

Qy 759 GGTGCTGCATGACACCATTAACCGTGAAGCGGTGTCAGGTGTTGATGGCAAGGACAAAC 818
Db 90 GGTGCTGCATGACAAACGATCGTAGTCGAGAAAGGCCAAACGATATGACGGAAGGCAAGCG 149
Qy 819 CTTCACCGCGGTTTCAGATTAGCGATGCGGCGCAGTCTGAAAACGAGAACCGCTGTT 878
Db 150 GCTGATTGCGAGTCCGAGCTCGGGACGCGCAGCAACGCGAGGATCAAAAACCGATTTT 209
Qy 879 TATCTGGAAGACGTCACCGCTGAAACCGTCACCATGGCGCAGCAGCGGGCGGATGG 938
Db 210 CAAAGTGGAGGATGGTGCAACGCTCAAAAATGTCGTCTGGCGCTCCTGCTGATGG 269
Qy 939 TATTCACTTTTACGGTGATGCAAAATAGACAATCTGCACGTCAACCAACGTTGGGTGAGGA 998
Db 270 TGTTCACATATGAAACGCTTCCATAAACAACGTTGTTGGAGAGATGTCGCGGAGA 329
Qy 999 CGGATTACCGTTAA 1013
Db 330 TGCCTTGACTGTCAA 344

RESULT 8
US-09-402-668-9
; Sequence 9, Application US/09402668
; Patent No. 6172030
; GENERAL INFORMATION:
; APPLICANT: WADA, Yasunao
; APPLICANT: KASAI, Miyuki
; APPLICANT: SHIKATA, Shitsuw
; APPLICANT: SUZUMATSU, Atsushi
; APPLICANT: KOIKE, Kenzo
; APPLICANT: HATADA, Yuji
; APPLICANT: KOBAYASHI, Tohru
; APPLICANT: ITO, Susumu
; APPLICANT: TSUMADORI, Masaki
; TITLE OF INVENTION: Detergent Composition
; FILE REFERENCE: 2173-0116P
; CURRENT APPLICATION NUMBER: US/09/402,668
; CURRENT FILING DATE: 1998-10-08
; PRIOR APPLICATION NUMBER: 9-091142 JAPAN
; PRIOR FILING DATE: 1997-04-09
; PRIOR APPLICATION NUMBER: 9-242736 JAPAN
; PRIOR FILING DATE: 1997-09-08
; PRIOR APPLICATION NUMBER: PCT/US98/01613
; PRIOR FILING DATE: 1998-04-09
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 9
; LENGTH: 185
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: primer
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Qy	118	GATCGGCAACCATTTAGCAAATGGCTCAATTATTGCGGAACGTGTTAAAGTCACTGCTA	177
Db	1325	RRR	1266
Qy	178	TGCGCCAAATCAGGTAATGCGGCAACCGGAGCCGGTGCGCAATGACCAGACTACAGGAGTT	237
Db	1265	RRR	1206
Qy	238	GGTAAACGCTGGCGCCTGAACGNAGAAAAGGCACAGCAGGAACCACTCCGAGTCGTAC	297
Db	1205	RRR	1146
Qy	298	AGTCAGAACATGCTGAGTAGAGTGGGCAACAACGGGCTGGATCAGGCCATCACGCCCGAT	357
Db	1145	RRR	1086
Qy	358	GGCCAGGCGCGGCAGATCGCGCAATACTCTTACTGAAGCCATGCTGAAGCTTATT	417
Db	1085	RRRRRRRRRRRRRRRRATCGCAAGCTCCCTCGACTCGAGCCAAGCTCGGAATTAAT	1026
Qy	418	GC 419	
Db	1025	TC 1024	

RESULT 11  
 US-09-072-596-323  
 ; Sequence 323, Application US/09072596  
 ; Patent No. 6458366  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Reed, Steven G.  
 ; APPLICANT: Skeiky, Yasir A.W.  
 ; APPLICANT: Dillon, Davin C.  
 ; APPLICANT: Campos-Neto, Antonia  
 ; APPLICANT: Houghton, Raymond  
 ; APPLICANT: Vedrick, Thomas S.  
 ; APPLICANT: Twardzik, Daniel R.  
 ; APPLICANT: Lodes, Michael J.  
 ; APPLICANT: Hendrickson, Ronald C.  
 ; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF  
 ; TUBERCULOSIS  
 ; NUMBER OF SEQUENCES: 350  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: SEED and BERRY LLP  
 ; STREET: 6300 Columbia Center, 701 Fifth Avenue  
 ; CITY: Seattle  
 ; STATE: Washington  
 ; COUNTRY: USA  
 ; ZIP: 98104-7092  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/072,596  
 ; FILING DATE: 05-MAY-1998  
 ; CLASSIFICATION:  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Maki, David J.  
 ; REGISTRATION NUMBER: 31,392  
 ; REFERENCE/DOCKET NUMBER: 210121.417C9  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (206) 622-4900  
 ; TELEFAX: (206) 682-6031  
 ; INFORMATION FOR SEQ ID NO: 323:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 1166 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: Genomic DNA  
 US-09-072-596-323

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Query Match          3.2%; Score 42.8; DB 3; Length 1166;
Best Local Similarity 28.6%; Pred. No. 0.0065;
Matches 68; Conservative 55; Mismatches 115; Indels 0; Gaps 0;

Qy      448  TTTGGCCAACTGGTACGGGCAACAACAGTGCCTCTTTCCGGTACTTCTTCATCTGGCGGT 507
      |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      563  TTTNNCCAMCMSCCTCTMTCAAACCTKCCCGGCKNCNMVCTCTCKCAYNMAACCKTY 622

Qy      508  TCCCTTTTAAAGATATATCAGGGGGGAAGGCCCTTTCCGGCAACTCCCTTCGGGCAAC 567
      ||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db      623  CYWCMNYCYMYCKCKAGMYKNMWTCTCWAECTTMYNTTCTCTCNKCCCMKACGKNVTC 682

Qy      568  TACTCTCCGCTGAGTACCTTCTCACCCCACTCCAGCCCAAGTCCCTTCACTCACCCTT 627
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Db      683  CWCSCCCCCACAKAYMCMYAWCMTMTCCMCTKACSCCCYYCNMYCNMNCWCMTCWCTW 742

Qy      628  GATTTCCCTTCTTCTCCCAACAAAGCAGCGGGGGGAGCAGCGCGGTAAACCGATCATC 685
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Db      743  NAKCANCNTTCTTCTCTCMYMTMAKWCNNTNCCKSKGACCYTCTCACTKMKCKM 800

RESULT 12
US-09-072-967-328
; Sequence 328, Application US/09072967
; Patent No. 6592877
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Houghton, Raymond
; APPLICANT: Vedwick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS
; NUMBER OF SEQUENCES: 355
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; City: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,967
; FILING DATE: 05-MAY-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 328:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1166 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
US-09-072-967-328

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Query Match 3.2%; Score 42.8; DB 4; Length 1166;  
Best Local Similarity 28.6%; Pred. No. 0.0065;  
Matches 68; Conservative 55; Mismatches 115; Indels 0; Gaps 0;







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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: July 29, 2005, 18:47:04 ; Search time 936 Seconds  
(without alignments)  
9293.640 Million cell updates/sec

Title: US-09-596-958A-1  
Perfect score: 1344  
Sequence: 1 atgtcaattcttaccgttaa.....acctgaagtgctgaatga 1344

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 7287783 seqs, 3236178273 residues

Total number of hits satisfying chosen parameters: 14575566

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 2: /cgn2\_6/ptodata/1/pubpna/PCT\_NEW\_PUB.seq.\*
- 3: /cgn2\_6/ptodata/1/pubpna/US06\_NEW\_PUB.seq.\*
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- 7: /cgn2\_6/ptodata/1/pubpna/US08\_NEW\_PUB.seq.\*
- 8: /cgn2\_6/ptodata/1/pubpna/US08\_PUBCOMB.seq.\*
- 9: /cgn2\_6/ptodata/1/pubpna/US09A\_PUBCOMB.seq.\*
- 10: /cgn2\_6/ptodata/1/pubpna/US09B\_PUBCOMB.seq.\*
- 11: /cgn2\_6/ptodata/1/pubpna/US09C\_PUBCOMB.seq.\*
- 12: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq.\*
- 13: /cgn2\_6/ptodata/1/pubpna/US10A\_PUBCOMB.seq.\*
- 14: /cgn2\_6/ptodata/1/pubpna/US10B\_PUBCOMB.seq.\*
- 15: /cgn2\_6/ptodata/1/pubpna/US10C\_PUBCOMB.seq.\*
- 16: /cgn2\_6/ptodata/1/pubpna/US10D\_PUBCOMB.seq.\*
- 17: /cgn2\_6/ptodata/1/pubpna/US10E\_PUBCOMB.seq.\*
- 18: /cgn2\_6/ptodata/1/pubpna/US10F\_PUBCOMB.seq.\*
- 19: /cgn2\_6/ptodata/1/pubpna/US10G\_PUBCOMB.seq.\*
- 20: /cgn2\_6/ptodata/1/pubpna/US10H\_PUBCOMB.seq.\*
- 21: /cgn2\_6/ptodata/1/pubpna/US10I\_PUBCOMB.seq.\*
- 22: /cgn2\_6/ptodata/1/pubpna/US10\_NEW\_PUB.seq.\*
- 23: /cgn2\_6/ptodata/1/pubpna/US11A\_PUBCOMB.seq.\*
- 24: /cgn2\_6/ptodata/1/pubpna/US11\_NEW\_PUB.seq.\*
- 25: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq.\*
- 26: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1344	100.0	1344	9	US-09-835-684-6
2	1344	100.0	1344	9	US-09-880-371-6
3	1344	100.0	1344	9	US-09-879-248-5
4	1344	100.0	1344	15	US-10-010-390-6
5	1344	100.0	1344	17	US-10-441-736-5
6	1344	100.0	1344	20	US-10-847-142-6
7	155.2	11.5	1729	9	US-09-835-684-10

8	155.2	11.5	1729	9	US-09-880-371-10	Sequence 10, Appl
9	155.2	11.5	1729	9	US-09-879-248-13	Sequence 13, Appl
10	155.2	11.5	1729	15	US-10-010-390-10	Sequence 10, Appl
11	155.2	11.5	1729	17	US-10-441-736-13	Sequence 13, Appl
12	155.2	11.5	1729	20	US-10-847-142-10	Sequence 10, Appl
13	155.2	11.5	30365	9	US-09-825-414-1	Sequence 1, Appl
14	155.2	11.5	30365	21	US-10-893-776A-1	Sequence 1, Appl
15	71.2	5.3	828	15	US-10-156-761-6360	Sequence 6360, Ap
16	71.2	5.3	9025608	15	US-10-156-761-1	Sequence 1, Appl
17	55	4.1	495	9	US-09-974-300-2826	Sequence 2826, Ap
18	46.6	3.5	732	20	US-10-653-047-4856	Sequence 4856, Ap
19	45.8	3.4	1080	20	US-10-425-115-129014	Sequence 129014,
20	45.6	3.4	629	19	US-10-437-963-101821	Sequence 101821,
21	43.4	3.2	572	20	US-10-425-113-59106	Sequence 59106, A
22	42.8	3.2	1166	15	US-10-193-003-323	Sequence 323, App
23	42.8	3.2	1166	15	US-10-084-843-328	Sequence 328, App
24	42.8	3.2	1166	24	US-11-028-898-328	Sequence 328, App
25	42.8	3.2	2283	9	US-09-938-842A-1691	Sequence 1691, Ap
26	42.8	3.2	2283	11	US-09-938-842A-1691	Sequence 1691, Ap
27	42.4	3.2	594	14	US-10-123-155-10	Sequence 10, Appl
28	42.4	3.2	594	15	US-10-146-731-10	Sequence 10, Appl
29	42.4	3.2	594	15	US-10-140-472-10	Sequence 10, Appl
30	42.4	3.2	594	15	US-10-141-761-10	Sequence 10, Appl
31	42.4	3.2	594	16	US-10-142-885-10	Sequence 10, Appl
32	42.4	3.2	594	16	US-10-158-790-10	Sequence 10, Appl
33	42.4	3.2	594	17	US-10-137-871-10	Sequence 10, Appl
34	42.4	3.2	594	17	US-10-140-923-10	Sequence 10, Appl
35	42.4	3.2	594	17	US-10-141-755-10	Sequence 10, Appl
36	42.4	3.2	594	17	US-10-141-759-10	Sequence 10, Appl
37	42.4	3.2	594	17	US-10-140-805-10	Sequence 10, Appl
38	42.4	3.2	594	17	US-10-140-864-10	Sequence 10, Appl
39	42.4	3.2	594	18	US-10-142-428-10	Sequence 10, Appl
40	41.4	3.1	96597	18	US-10-052-482-103	Sequence 103, App
41	41.2	3.1	354592	22	US-10-737-082-70	Sequence 70, Appl
42	41.2	3.1	354592	22	US-10-765-790-70	Sequence 70, Appl
43	41	3.1	1923	19	US-10-437-963-85199	Sequence 85199, A
44	40.6	3.0	344805	20	US-10-779-271-1	Sequence 1, Appl
45	40.6	3.0	1128	15	US-10-156-761-2339	Sequence 2339, Ap

ALIGNMENTS

RESULT 1

US-09-835-684-6  
; Sequence 6, Application US/09835684  
; Patent No. US20020019337A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Remick, Dean  
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
; TITLE OF INVENTION: DESICCATION  
; FILE REFERENCE: 21829/71  
; CURRENT APPLICATION NUMBER: US/09/835,684  
; PRIOR FILING DATE: 2001-04-16  
; PRIOR APPLICATION NUMBER: 60/198,359  
; PRIOR FILING DATE: 2000-04-19  
; NUMBER OF SEQ IDS: 12  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 1344  
; TYPE: DNA  
; ORGANISM: Erwinia amylovora  
US-09-835-684-6

Query Match 100.0%; Score 1344; DB 9; Length 1344;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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RESULT 2

US-09-880-371-6  
; Sequence 6, Application US/09880371  
; Patent No. US20020059658A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: DeRoche, Jay  
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC  
; TITLE OF INVENTION: PLANTS  
; FILE REFERENCE: 21829/91  
; CURRENT APPLICATION NUMBER: US/09/880,371  
; PRIOR FILING DATE: 2001-06-13  
; PRIOR APPLICATION NUMBER: 60/211,585  
; PRIOR FILING DATE: 2000-06-15  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 1344  
; TYPE: DNA  
; ORGANISM: Erwinia amylovora  
US-09-880-371-6

Query Match 100.0%; Score 1344; DB 9; Length 1344;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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APN

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Db 1321 GCCAAGCTGAAGTGGCTGATGA 1344

## RESULT 3

US-09-879-248-5  
; Sequence 5, Application US/09879248  
; Patent No. US20020062500A1  
; GENERAL INFORMATION:  
; APPLICANT: Fan, Hao  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE THEREOF

ADN

; FILE REFERENCE: 21829/81  
; CURRENT APPLICATION NUMBER: US/09/879, 248  
; PRIOR FILING DATE: 2001-06-12  
; PRIOR APPLICATION NUMBER: 60/212,211  
; PRIOR FILING DATE: 2000-06-16  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 5  
; LENGTH: 1344  
; TYPE: DNA  
; ORGANISM: Erwinia amylovora  
; US-09-879-248-5

Query Match 100.0%; Score 1344; DB 9; Length 1344;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 301 CAGAACATGCTGAGTGAAGTGGCAACACGGGCTGATCAGGCGCATCAGCGCGATGGC 360  
Qy 361 CAGGCGGGGGGAGATCGGCGATTAATCTTTACTGAAAGCCATGCTGAAGCTTATTGCA 420  
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Db 421 CGCATGATGAGCGGCAAAAGCGATCAGTTTGGCAACCTGGTACGGGCAACACAGTGCC 480  
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Qy 781 GTGAAAGCGGTGAGTGTGATGGCAAGGACAAACCTTACCGCGGTTCAGAAATTA 840  
Db 781 GTGAAAGCGGTGAGTGTGATGGCAAGGACAAACCTTACCGCGGTTCAGAAATTA 840

QY 841 GGCGATGGCGGCAGTCTGAAACCCAGAAACCGCTGTTTATCTGGAAGACGGTGCAGC 900  
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QY 961 AAAATAGACAATCTGCACGCTCCCAACGCTGGGTGAGACCGGATTAAGCCAAAC 1020  
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QY 1021 AGCGCGGCAAAAAATCCCAAGCTTGAATCACTAAACAGTTCTTCGAGACGCTCTGAC 1080  
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QY 1201 CATATCAGCGCAGAAACGCTTAAGTTCTCGTTGTTTAAAGCGATAGCGGGGCTAAAC 1260  
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QY 1321 GCCAACCCTGAAGTGGCTGAATCA 1344  
DB 1321 GCCAACCCTGAAGTGGCTGAATCA 1344

## RESULT 4

US-10-010-390-6  
; Sequence 6, Application US/10010390  
; Publication No. US20030104979A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Leon, Ernesto  
; APPLICANT: Oviedo, Agustín  
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED  
; FILE REFERENCE: 21829/111  
; CURRENT APPLICATION NUMBER: US/10/010,390  
; PRIOR FILING DATE: 2001-11-05  
; PRIOR FILING DATE: 2000-11-13  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 1344  
; TYPE: DNA  
; ORGANISM: Erwinia amylovora  
US-10-010-390-6

Query Match 100.0%; Score 1344; DB 15; Length 1344;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 ATGTCAATTTTACGCTTAAACAATACCTCGTCTCGCGGGTCTGTTCCAGTCCGGG 60  
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DB 121 CGGCAAAACCAATTGAGCAATGGCTCAATTTATTGGCGGAACCTGTTAAAGTCACTGCTATCG 180  
QY 181 CCACAATAGGTAAATGCGGCAACCGGAGCCGGTGGCAATGACCAAGACTACAGAGTTGGT 240  
DB 181 CCACAATAGGTAAATGCGGCAACCGGAGCCGGTGGCAATGACCAAGACTACAGAGTTGGT 240  
QY 241 AACGTCGGCGGCTGAAACGGAAGGACAGAGGAAACCACTCCGAGTCTGACAGT 300  
DB 241 AACGTCGGCGGCTGAAACGGAAGGACAGAGGAAACCACTCCGAGTCTGACAGT 300  
QY 301 CAGAAACATCTGAGTGAATGGGCAACACGCGCTGGATCAGGCCATCAGCCCGATGGC 360  
DB 301 CAGAAACATCTGAGTGAATGGGCAACACGCGCTGGATCAGGCCATCAGCCCGATGGC 360  
QY 361 CAGGGCGGCGGAGATCGGCGATTAATCTTTACTGAAAAGCCATGCTGAAGCTTATTGCA 420  
DB 361 CAGGGCGGCGGAGATCGGCGATTAATCTTTACTGAAAAGCCATGCTGAAGCTTATTGCA 420  
QY 421 CGCATGATGAGCGGCAAGCGATCAGTTTGGCCAACTGGTACGGGCAACCAACAGTGCC 480  
DB 421 CGCATGATGAGCGGCAAGCGATCAGTTTGGCCAACTGGTACGGGCAACCAACAGTGCC 480  
QY 481 TCTTCGGTACTTCTTCATCTCGCGGTTCCTCTTTTAAACGATCTATCAGGGGGGAAGGCC 540  
DB 481 TCTTCGGTACTTCTTCATCTCGCGGTTCCTCTTTTAAACGATCTATCAGGGGGGAAGGCC 540  
QY 541 CTTTCGGCAACTCCCTTCGCGCAACTACTCTCCGTCAGTACCTTCTCAACCCCATCC 600  
DB 541 CTTTCGGCAACTCCCTTCGCGCAACTACTCTCCGTCAGTACCTTCTCAACCCCATCC 600  
QY 601 AGCCAAACCTCCCTTACCTCAGCGTTGATTTCCCTTCTCCCAACCAAGCAGCCGG 660  
DB 601 AGCCAAACCTCCCTTACCTCAGCGTTGATTTCCCTTCTCCCAACCAAGCAGCCGG 660  
QY 661 GGCAGCACCGCGGTAAACCGATCATCTGACCTCTGTTGGTAGCGCGGCATCGGGCGGGA 720  
DB 661 GGCAGCACCGCGGTAAACCGATCATCTGACCTCTGTTGGTAGCGCGGCATCGGGCGGGA 720  
QY 721 AATTGGTGGCTTACAGCGCGCGGCTAATCAGACGGTGTGATGACACCATATCC 780  
DB 721 AATTGGTGGCTTACAGCGCGCGGCTAATCAGACGGTGTGATGACACCATATCC 780  
QY 781 GTGAAAGCGGTCAAGTGTGATGGAAGGAAACCTTCAACCCCGTTCAGAAATTA 840  
DB 781 GTGAAAGCGGTCAAGTGTGATGGAAGGAAACCTTCAACCCCGTTCAGAAATTA 840  
QY 841 GGCATGGCGGCGAGTCTGAAAACCAAGAACCGCTGTTTATCTGGAAGACGGTGCAGC 900  
DB 841 GGCATGGCGGCGAGTCTGAAAACCAAGAACCGCTGTTTATCTGGAAGACGGTGCAGC 900  
QY 901 CTGAAAAACGTCAACATGGCGCGACGCGGGCGGATGGTATTCATCTTTACGGTGATGCC 960  
DB 901 CTGAAAAACGTCAACATGGCGCGACGCGGGCGGATGGTATTCATCTTTACGGTGATGCC 960  
QY 961 AAAATAGACAATCTGCACGCTCCCAACGCTGGGTGAGACCGGATTAAGCCAAAC 1020  
DB 961 AAAATAGACAATCTGCACGCTCCCAACGCTGGGTGAGACCGGATTAAGCCAAAC 1020  
QY 1021 AGCGCGGCAAAAAATCCCAAGCTTGAATCACTAAACAGTTCTTCGAGACGCTCTGAC 1080  
DB 1021 AGCGCGGCAAAAAATCCCAAGCTTGAATCACTAAACAGTTCTTCGAGACGCTCTGAC 1080  
QY 1081 AAGATCTCGAGTGAATCCGATACCTAAGCTTGAATCACTAAACAGTTCTTCGAGACGCTCTGAC 1140  
DB 1081 AAGATCTCGAGTGAATCCGATACCTAAGCTTGAATCACTAAACAGTTCTTCGAGACGCTCTGAC 1140  
QY 1141 TTTGGTACTTTTACGCACTTAACGCGGTCAACAGGTTAACTGGATCTGAATCTGAGC 1200  
DB 1141 TTTGGTACTTTTACGCACTTAACGCGGTCAACAGGTTAACTGGATCTGAATCTGAGC 1200  
QY 1201 CATATCAGCGCAGAAACGCTTAAGTTCTCGTTGTTTAAAGCGATAGCGGGGCTAAAC 1260

Db 1201 CATATCAGCCAGNAGCGGTAACTTCTCGTTGTTAAAGCGATACGAGGGCTAAAC 1260  
Qy 1261 GTCAATACCAAGTATCTCACTGGGTGATGTTGAAACCACTACAAAGTCCGATGCC 1320  
Db 1261 GTCAATACCAAGTATCTCACTGGGTGATGTTGAAACCACTACAAAGTCCGATGCC 1320  
Qy 1321 GCCAACCCTGAAGTGGCTGAATGA 1344  
Db 1321 GCCAACCCTGAAGTGGCTGAATGA 1344

RESULT 5

US-10-441-736-5  
; Sequence 5, Application US/10441736  
; Publication No. US20040016029A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Schading, Richard L.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS  
; TITLE OF INVENTION: RESISTANCE  
; FILE REFERENCE: 21829/203 (EBC-003)  
; CURRENT APPLICATION NUMBER: US/10/441,736  
; PRIOR FILING DATE: 2003-05-20  
; PRIOR APPLICATION NUMBER: 60/107,243  
; PRIOR FILING DATE: 1998-11-05  
; PRIOR APPLICATION NUMBER: 09/431,614  
; PRIOR FILING DATE: 1999-11-02  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 5  
; LENGTH: 1344  
; TYPE: DNA  
; ORGANISM: Erwinia amylovora  
US-10-441-736-5

Query Match 100.0%; Score 1344; DB 17; Length 1344;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 ATGTCAATCTTACGCTTAAACAATACCTCGTCTCGCGGGTCTGTTCCAGTCCGGG 60  
Db 1 ATGTCAATCTTACGCTTAAACAATACCTCGTCTCGCGGGTCTGTTCCAGTCCGGG 60  
Qy 61 GGGGACAAACGGGCTTGGTGTGTCATATGCAAAATTCGCTGGGGGCAACCAACCATCGAT 120  
Db 61 GGGGACAAACGGGCTTGGTGTGTCATATGCAAAATTCGCTGGGGGCAACCAACCATCGAT 120  
Qy 121 CGCACAACCAATGAGCAATGCTCAATTTATGCGGAACCTGTTAAAGTCACTGCTATCG 180  
Db 121 CGCACAACCAATGAGCAATGCTCAATTTATGCGGAACCTGTTAAAGTCACTGCTATCG 180  
Qy 181 CCACAATCAGGTAAATGCGGCAACCGGAGCGGTGGCAATGACAGACTACAGGAGTTGGT 240  
Db 181 CCACAATCAGGTAAATGCGGCAACCGGAGCGGTGGCAATGACAGACTACAGGAGTTGGT 240  
Qy 241 AACGCTGGCGCTGAAACGCAAGAAAGGACAGAGCAACCACTCGCAGTCTGACAGT 300  
Db 241 AACGCTGGCGCTGAAACGCAAGAAAGGACAGAGCAACCACTCGCAGTCTGACAGT 300  
Qy 301 CAGAACATGCTGATGAGTGGGCAACCAACCGGCTGGATCAGGCCATCAGCCCGATGGC 360  
Db 301 CAGAACATGCTGATGAGTGGGCAACCAACCGGCTGGATCAGGCCATCAGCCCGATGGC 360  
Qy 361 CAGGCGCGGGCAGATCGCGGATATCTTACTGAAAGCCATGCTGAAGCTTATTGCA 420  
Db 361 CAGGCGCGGGCAGATCGCGGATATCTTACTGAAAGCCATGCTGAAGCTTATTGCA 420  
Qy 421 CGCATGATGACGCCCAACCGATCAGTTTGGCAACCTCGTACGGGCAACCAAGTGGC 480  
Db 421 CGCATGATGACGCCCAACCGATCAGTTTGGCAACCTCGTACGGGCAACCAAGTGGC 480  
Qy 481 TCTTCGGTACTTCTCATCTGGGGTTCCTTTTAAAGATCTATCAGGGGGGAAGGCC 540

Db 481 TCTTCGGTACTTCTCATCTCGGGTTCCTTTTAAAGATCTATCAGGGGGGAAGGCC 540  
Qy 541 CTTTCGGCAACTCCCTTCCGGCAACTACTCTCCGTCAGTACTCTTCTCACCCCCATCC 600  
Db 541 CTTTCGGCAACTCCCTTCCGGCAACTACTCTCTCCGTCAGTACTCTTCTCACCCCCATCC 600  
Qy 601 ACGCCAACGTCCTTACCTCAGCGTGGTATTCCTTCTTCCACCAAGAGCAGCGGG 660  
Db 601 ACGCCAACGTCCTTACCTCAGCGTGGTATTCCTTCTTCCACCAAGAGCAGCGGG 660  
Qy 661 GGCAGCACCGCGGTAAACCGGATCATCTGACCCCTGTTGGTAGCGGGCATCGGGCCGGA 720  
Db 661 GGCAGCACCGCGGTAAACCGGATCATCTGACCCCTGTTGGTAGCGGGCATCGGGCCGGA 720  
Qy 721 AATTTCGGTGGCTTTCACAGCGCGGCTAAATCAGACGGTGTGTCATGACCATTA 780  
Db 721 AATTTCGGTGGCTTTCACAGCGCGGCTAAATCAGACGGTGTGTCATGACCATTA 780  
Qy 781 GTCAAAAGCGGTGAGTGTGTTGATGCAAGAGCAAACTTACCGCGGTTCAGAAATTA 840  
Db 781 GTCAAAAGCGGTGAGTGTGTTGATGCAAGAGCAAACTTACCGCGGTTCAGAAATTA 840  
Qy 841 GGCAGTGGCGGCGCAGTCTGAAACCAAGAACCGCTGTTTATCTGGAAGCGGTGCCAGC 900  
Db 841 GGCAGTGGCGGCGCAGTCTGAAACCAAGAACCGCTGTTTATCTGGAAGCGGTGCCAGC 900  
Qy 901 CTGAAAAACGTTCACCATGGCGCAGCAGCGGGCGGATGTTTATCTTACCGTGTATGCC 960  
Db 901 CTGAAAAACGTTCACCATGGCGCAGCAGCGGGCGGATGTTTATCTTACCGTGTATGCC 960  
Qy 961 AAAATAGACAAATCTGCAACGTCAACAGCGTGGGTGAGACCGGATTAACCGTAAAGCCAAAC 1020  
Db 961 AAAATAGACAAATCTGCAACGTCAACAGCGTGGGTGAGACCGGATTAACCGTAAAGCCAAAC 1020  
Qy 1021 AGCGCGGCAAAATCCCAAGTGTGAAATCACTAACAGTTCCTTCGAGCAGCGCTCTGAC 1080  
Db 1021 AGCGCGGCAAAATCCCAAGTGTGAAATCACTAACAGTTCCTTCGAGCAGCGCTCTGAC 1080  
Qy 1081 AAGATCTGCGAGTGAATGCCGATCTAACTGAGCGTGTGACAACTGGAAGGCCAAAGAC 1140  
Db 1081 AAGATCTGCGAGTGAATGCCGATCTAACTGAGCGTGTGACAACTGGAAGGCCAAAGAC 1140  
Qy 1141 TTTGGTACTTTTGTAGCAGTAAACCGGCTCAACAGGTTAACTGGGATCTGAATCTGAGC 1200  
Db 1141 TTTGGTACTTTTGTAGCAGTAAACCGGCTCAACAGGTTAACTGGGATCTGAATCTGAGC 1200  
Qy 1201 CATATCAGCGCAGAACGCTAAGTTCTCGTTCGTTAAAGCGATAGCGAGGGCTAAAC 1260  
Db 1201 CATATCAGCGCAGAACGCTAAGTTCTCGTTCGTTAAAGCGATAGCGAGGGCTAAAC 1260  
Qy 1261 GTCAATACCAAGTATCTCACTGGGTGATGTTGAAACCACTACAAAGTCCGATGCC 1320  
Db 1261 GTCAATACCAAGTATCTCACTGGGTGATGTTGAAACCACTACAAAGTCCGATGCC 1320  
Qy 1321 GCCAACCCTGAAGTGGCTGAATGA 1344  
Db 1321 GCCAACCCTGAAGTGGCTGAATGA 1344

RESULT 6

US-10-847-142-6  
; Sequence 6, Application US/10847142  
; Publication No. US20040265442A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Remick, Dean  
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
; TITLE OF INVENTION: DESICCATION  
; FILE REFERENCE: 21829/197  
; CURRENT APPLICATION NUMBER: US/10/847,142  
; CURRENT FILING DATE: 2004-05-17

*web of 16 July 2004*

PRIOR APPLICATION NUMBER: 60/198,359  
PRIOR FILING DATE: 2000-04-19  
PRIOR APPLICATION NUMBER: 09/835,684  
PRIOR FILING DATE: 2001-04-16  
NUMBER OF SEQ ID NOS: 12  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 6  
LENGTH: 1344  
TYPE: DNA  
ORGANISM: Erwinia amylovora  
US-10-847-142-6

Query Match 100.0%; Score 1344; DB 20; Length 1344;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTCATTTCTTACGGTTTAAACAATACCTCGTCTCGCGGGTCTGTTCCAGTCCGGG 60  
DB 1 ATGTCATTTCTTACGGTTTAAACAATACCTCGTCTCGCGGGTCTGTTCCAGTCCGGG 60

QY 61 GGGGCAACCGGGCTTGGTGTATATGCAATTTCTGCTGGGCAACAACCCATCGAT 120  
DB 61 GGGGCAACCGGGCTTGGTGTATATGCAATTTCTGCTGGGCAACAACCCATCGAT 120

QY 121 CGGCAACCATTTGAGCAATTTGGCTCAATTTATTTGGCGAACTGTTAAAGTCACTGCTATCG 180  
DB 121 CGGCAACCATTTGAGCAATTTGGCTCAATTTATTTGGCGAACTGTTAAAGTCACTGCTATCG 180

QY 181 CCAATATAGGTAAATCGGCAACCGGAGCGGTTGCAATGACAGACTACAGGAGTTGTT 240  
DB 181 CCAATATAGGTAAATCGGCAACCGGAGCGGTTGCAATGACAGACTACAGGAGTTGTT 240

QY 241 AACGCTGGCGGCTGAAACGCAACGAGCAACGAGGACCACTCGGAGTGTGACAT 300  
DB 241 AACGCTGGCGGCTGAAACGCAACGAGCAACGAGGACCACTCGGAGTGTGACAT 300

QY 301 CAGAACATGCTGAGTGGGCAACAAACCGGCTGGATCAGGCCATCAGCCCGGATGGC 360  
DB 301 CAGAACATGCTGAGTGGGCAACAAACCGGCTGGATCAGGCCATCAGCCCGGATGGC 360

QY 361 CAGGCGGGGGGAGATCGGCGAATATCTTTACTGAAAGCCATGCTGAAGCTTATTGCA 420  
DB 361 CAGGCGGGGGGAGATCGGCGAATATCTTTACTGAAAGCCATGCTGAAGCTTATTGCA 420

QY 421 CGCATATGACGGGCAACGAGTATGTTGGCAACCTGTTACGGGCAACACAGTGGC 480  
DB 421 CGCATATGACGGGCAACGAGTATGTTGGCAACCTGTTACGGGCAACACAGTGGC 480

QY 481 TCTTCGGGTACTTCTTCACTGCGGTTCCTCTTTTAAAGATCTATCAGGGGGGAGGCC 540  
DB 481 TCTTCGGGTACTTCTTCACTGCGGTTCCTCTTTTAAAGATCTATCAGGGGGGAGGCC 540

QY 541 CTTTCGGGAATCTCCCTTCCTCGGCAACTACTCTCCGTCAGTACCTTCTCACCCCCATCC 600  
DB 541 CTTTCGGGAATCTCCCTTCCTCGGCAACTACTCTCCGTCAGTACCTTCTCACCCCCATCC 600

QY 601 AGCCCAACGCTCCCTACCTACCGCTTGAATTCCTCTTCTCCCAACGAGCGGG 660  
DB 601 AGCCCAACGCTCCCTACCTACCGCTTGAATTCCTCTTCTCCCAACGAGCGGG 660

QY 661 GGCGACGCGCGGTAAACCGATCATCTGACCTCTGTTGGTAGCGCGGCATCGGGCGGA 720  
DB 661 GGCGACGCGCGGTAAACCGATCATCTGACCTCTGTTGGTAGCGCGGCATCGGGCGGA 720

QY 721 AATTCCGGTGGCTTCAACGCGCGGCTAATCAGACGGTGTGATGACACCATTACC 780  
DB 721 AATTCCGGTGGCTTCAACGCGCGGCTAATCAGACGGTGTGATGACACCATTACC 780

QY 781 GTCAAGCGGGTCAAGTGTGATGCAAGGCAACCTTCAACCGCGGCTTCAAGATTA 840  
DB 781 GTCAAGCGGGTCAAGTGTGATGCAAGGCAACCTTCAACCGCGGCTTCAAGATTA 840

QY 841 GGCGATGGCGGCGGTCTGAAACCAAGAACCGCTGTTTATCTGGAAGACGGTGCAGC 900

QY 841 GCGGATGGCGGCGGTCTGAAACCAAGAACCGCTGTTTATCTGGAAGACGGTGCAGC 900

QY 901 CTGAAAAACGTCAACATGGGCGACGACGCGGGCGGATGGTATTCTTACCGTGTATGCC 960  
DB 901 CTGAAAAACGTCAACATGGGCGACGACGCGGGCGGATGGTATTCTTACCGTGTATGCC 960

QY 961 AAAATAGACAATCTGCAGTCAACCGTGGGTGGGAGCGGATTAACCGTTAAGCCAAAC 1020  
DB 961 AAAATAGACAATCTGCAGTCAACCGTGGGTGGGAGCGGATTAACCGTTAAGCCAAAC 1020

QY 1021 AGCGGGGCAAAAAATCCACGTTGAAATCACTAACAGTTCCTTCGAGCACGCTCTGAC 1080  
DB 1021 AGCGGGGCAAAAAATCCACGTTGAAATCACTAACAGTTCCTTCGAGCACGCTCTGAC 1080

QY 1081 AAGATCTCGACCTGAATGCCGATTAACCTGAGCGTTGACAACGTTGAAGGCCAAAGAC 1140  
DB 1081 AAGATCTCGACCTGAATGCCGATTAACCTGAGCGTTGACAACGTTGAAGGCCAAAGAC 1140

QY 1141 TTTGGTACTTTGTACGCACTAACCGCGTCAACAGGTAACCTGGGATCTGAATCTGAGC 1200  
DB 1141 TTTGGTACTTTGTACGCACTAACCGCGTCAACAGGTAACCTGGGATCTGAATCTGAGC 1200

QY 1201 CATATCAGCGCAAGACGGTAAAGTTCTCGTTCTGTTTAAAGCGATAGCGGGGCTTAAAC 1260  
DB 1201 CATATCAGCGCAAGACGGTAAAGTTCTCGTTCTGTTTAAAGCGATAGCGGGGCTTAAAC 1260

QY 1261 GTCAATACAGTGTATCTCACTGGGTGATGTTGAAACCACTACAAAGTCCGATGTCC 1320  
DB 1261 GTCAATACAGTGTATCTCACTGGGTGATGTTGAAACCACTACAAAGTCCGATGTCC 1320

QY 1321 GCCAACCTGAAAGTGGCTGAATGA 1344  
DB 1321 GCCAACCTGAAAGTGGCTGAATGA 1344

RESULT 7  
US-09-835-684-10  
Sequence 10, Application US/09835684  
Patent No. US20020019337A1  
GENERAL INFORMATION:  
APPLICANT: Wei, Zhong-Min  
APPLICANT: Qiu, Dewen  
APPLICANT: Remick, Dean  
TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
TITLE OF INVENTION: DSSICATION  
FILE REFERENCE: 21829/71  
CURRENT APPLICATION NUMBER: US/09/835,684  
CURRENT FILING DATE: 2001-04-16  
PRIOR APPLICATION NUMBER: 60/198,359  
PRIOR FILING DATE: 2000-04-19  
NUMBER OF SEQ ID NOS: 12  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 10  
LENGTH: 1729  
TYPE: DNA  
ORGANISM: Pseudomonas syringae  
US-09-835-684-10

Query Match 11.5%; Score 155.2; DB 9; Length 1729;  
Best Local Similarity 57.1%; Pred. No. 1-7e-40;  
Matches 330; Conservative 0; Mismatches 233; Indels 15; Gaps 2;

QY 745 GCGGCTAATCAGACGGTGTGATGACACCATTAACCGTGAAGCGGGTCAAGTGTGAT 804  
DB 1079 GCGGCAAGTCAATGTGTGAAAGACACCATCAAGTCCGGCTGGCGAAGTCTTTGAC 1138

QY 805 GCAAGGCAACACCTTCAACCGGTTTACAGATTTAGGCGATGGCGGCGAGTCTGAAAC 864  
DB 1139 GCGGCGGCAACCTTCACTCCGCAATCTATGGGTAAACGAGACGAGGCGGAAAT 1198

QY 865 CAGAAACCGCTGTTTATCTGGAAGACGGTGCAGCTGAAACCGTCAACCATGGCGAC 924



Db 1199 CAGAGCCCATGTTGAGCTGGCTGAGAGCGCTACGTTGAAGATGTGAACCTGGGTGAG 1258  
Qy 925 GACGGGGCGGATGATTCATCTTTTACG-----GTGATGCCAAAATAGACAAT 972  
Db 1259 AACGAGGTGATGGCATCCACGTGAAAGCCAAAACGCTCAGGAAGTCCACATTTGACAAC 1318  
Qy 973 CTGACGTACCAACGCTGGGTGAGGAGCGCATACGTTAAAGCCAAACAGCGGGGCGAA 1032  
Db 1319 GTGCATGCCAGAACGCTGGGTGAAGACCTGATTAACGTTCAAGGCGAGGAGCGCAGCG 1378  
Qy 1033 AAATCCCACTGTGAATCACTAACAGTTCTTCGAGCACGCCCTCTGACAAGATCCTGCAG 1092  
Db 1379 GTCACTAATCTGAACATCAAGAACAGAGTGCAGACGACGAAGTTGTCCAG 1438  
Qy 1093 CTGAATGCCGATACTAACCTGAGCGTTGACAAACGTTGAAGGCCAAAGACTTTTGGTACTTTT 1152  
Db 1439 CTCAAGCCCAACACTCACTTTGAAATCGACAACCTTCAAGGCCGACGATTTTCGGCAGATG 1498  
Qy 1153 GTACGCACTAACCGCGGTCAACAG---GGTAATCGGATCTGAATCTGAGCCATATCAGC 1209  
Db 1499 GTTCGCAACCAACGCTGGTGAAGCAGTTTGTATGACATGAGCATCGAGCTGAACCGCATCGAA 1558  
Qy 1210 GCAGAAGACGTTAAGTTCTCGTTTAAAGCGATAGCGAGGGCTTAAACGTTCAATACC 1269  
Db 1559 GCTAACCAACGCGAAGTTCCGCTGGTGAAGGCGACAGTGCATCTGAAGCTGGCAACG 1618  
Qy 1270 AGTGATATCTCACTGGGTGATGTTGAAACCACTACAA 1307  
Db 1619 GGCAACATCGCCATGACCGACGTCAAACACGCTACGA 1656

## RESULT 8

US-09-880-371-10  
; Sequence 10, Application US/09880371  
; Patent No. US20020059658A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Derocher, Jay  
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC  
; TITLE OF INVENTION: PLANTS  
; FILE REFERENCE: 21829/91  
; CURRENT APPLICATION NUMBER: US/09/880,371  
; CURRENT FILING DATE: 2001-06-13  
; PRIOR APPLICATION NUMBER: 60/211,585  
; PRIOR FILING DATE: 2000-06-15  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 10  
; LENGTH: 1729  
; TYPE: DNA  
; ORGANISM: Pseudomonas syringae  
US-09-880-371-10

Query Match 11.5%; Score 155.2; DB 9; Length 1729;  
Best Local Similarity 57.1%; Pred. No. 1.7e-40;  
Matches 330; Conservative 0; Mismatches 233; Indels 15; Gaps 2;  
Qy 745 GCGCTTAATCAGACGGTGTGCTGATGACACCATTAACCGTGAAGCGGTGAGGTGTTTGTAT 804  
Db 1079 GCGCGAAGATCAATGTGTGAAGACACCATCAAGTCCGCGCTGCGGAAGTCTTTGAC 1138  
Qy 805 GGCAAGGACAAACCTTCAACCGCGGTTCAGAAATTAGCGCATGGCGCCAGTCTGAAAAC 864  
Db 1139 GGCCACGGCAACCTTCACTGCGCAAAATCTATGGTTAAACGAGACCGAGGCGAAAT 1198  
Qy 865 CAGAAACCGCTGTTTATCTGGAAGACGGTCCAGCTGAAAACGTCACCATGGGCGAC 924  
Db 1199 CAGAAAGCCCATGTTTCGAGCTGGGTGAAGGCGCTACGTTGAAGATGTGAACCTGGGTGAG 1258  
Qy 925 GACGGGCGGATGTTTATCTTCTTACG-----GTGATGCCAAAATAGACAAT 972  
Db 1259 AACGAGGTGATGGCATTCACGTGAAGCCAAAACGCTCAGGAAGTCCACATTTGACAAC 1318

Qy 973 CTGCACGTACCAACGTTGGTGGTGAAGGCGCATTAACGTTAAAGCCAAACAGCGGGGCGAAA 1032  
Db 1319 GTGCATGCCAGAACGCTGGGTGAAGACCTGATTAACGTTCAAGGCGAGGAGGCGCAGCG 1378  
Qy 1033 AAATCCCACTGTGAATCACTAACAGTTCTTCGAGCACGCCCTCTGACAAGATCCTGCAG 1092  
Db 1379 GTCACTAATCTGAACATCAAGAACAGAGTGCAGACGACGAAGTTGTCCAG 1438  
Qy 1093 CTGAATGCCGATACTAACCTGAGCGTTGACAAACGTTGAAGGCCAAAGACTTTTGGTACTTTT 1152  
Db 1439 CTCAAGCCCAACACTCACTTTGAAATCGACAACCTTCAAGGCCGACGATTTTCGGCAGATG 1498  
Qy 1153 GTACGCACTAACCGCGGTCAACAG---GGTAATCGGATCTGAATCTGAGCCATATCAGC 1209  
Db 1499 GTTCGCAACCAACGCTGGTGAAGCAGTTTGTATGACATGAGCATCGAGCTGAACCGCATCGAA 1558  
Qy 1210 GCAGAAGACGTTAAGTTCTCGTTTAAAGCGATAGCGAGGGCTTAAACGTTCAATACC 1269  
Db 1559 GCTAACCAACGCGAAGTTCCGCTGGTGAAGGCGACAGTGCATCTGAAGCTGGCAACG 1618  
Qy 1270 AGTGATATCTCACTGGGTGATGTTGAAACCACTACAA 1307  
Db 1619 GGCAACATCGCCATGACCGACGTCAAACACGCTACGA 1656

## RESULT 9

US-09-879-248-13  
; Sequence 13, Application US/09879248  
; Patent No. US20020062500A1  
; GENERAL INFORMATION:  
; APPLICANT: Fan, Hao  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE  
; TITLE OF INVENTION: THEREOF  
; FILE REFERENCE: 21829/81  
; CURRENT APPLICATION NUMBER: US/09/879,248  
; CURRENT FILING DATE: 2001-06-12  
; PRIOR APPLICATION NUMBER: 60/212,211  
; PRIOR FILING DATE: 2000-06-16  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 13  
; LENGTH: 1729  
; TYPE: DNA  
; ORGANISM: Pseudomonas syringae  
US-09-879-248-13

Query Match 11.5%; Score 155.2; DB 9; Length 1729;  
Best Local Similarity 57.1%; Pred. No. 1.7e-40;  
Matches 330; Conservative 0; Mismatches 233; Indels 15; Gaps 2;  
Qy 745 GCGCTTAATCAGACGGTGTGCTGATGACACCATTAACCGTGAAGCGGTGAGGTGTTTGTAT 804  
Db 1079 GCGCGAAGATCAATGTGTGAAGACACCATCAAGTCCGCGCTGCGGAAGTCTTTGAC 1138  
Qy 805 GGCAAGGACAAACCTTCAACCGCGGTTCAGAAATTAGCGCATGGCGCCAGTCTGAAAAC 864  
Db 1139 GGCCACGGCAACCTTCACTGCGCAAAATCTATGGTTAAACGAGACCGAGGCGAAAT 1198  
Qy 865 CAGAAACCGCTGTTTATCTGGAAGACGGTCCAGCTGAAAACGTCACCATGGGCGAC 924  
Db 1199 CAGAAAGCCCATGTTTCGAGCTGGGTGAAGGCGCTACGTTGAAGATGTGAACCTGGGTGAG 1258  
Qy 925 GACGGGCGGATGTTTATCTTCTTACG-----GTGATGCCAAAATAGACAAT 972  
Db 1259 AACGAGGTGATGGCATTCACGTGAAGCCAAAACGCTCAGGAAGTCCACATTTGACAAC 1318  
Qy 973 CTGCACGTACCAACGCTGGGTGAGGACGGATTAACGTTAAAGCCAAACAGCGGGGCGAAA 1032  
Db 1319 GTGCATGCCAGAACGCTGGGTGAAGACCTGATTAACGTTCAAGGCGAGGAGGCGCAGCG 1378  
Qy 1033 AAATCCCACTGTGAATCACTAACAGTTCTTCGAGCACGCCCTCTGACAAGATCCTGCAG 1092



Db 1499 GTTCGACCAACGGTGCAGCAGTTTGTATGACATGAGCATCGAGCTGAACGGCATCGAA 1558  
Qy 1210 GCAGAAAGACGGTAAGTTCTCGTCTGTTAAAGCGATAGCGGGCTTAAACGTCATACC 1269  
Db 1559 GCTAACACCGCAAGTTTCGCCCTGGTGAAGAGCGACAGTACGATCTCGAAGCTGGCAACG 1618  
Qy 1270 AGTGATATCTCACTGGGTGATGTTGAAACACCACTACAA 1307  
Db 1619 GGCAACATCGCATGACCGGACGTCACACGCTACGA 1656

## RESULT 12

US-10-847-142-10  
; Sequence 10, Application US/10847142  
; Publication No. US20040265442A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Remick, Dean  
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
; FILE REFERENCE: 21829/197  
; CURRENT APPLICATION NUMBER: US/10/847,142  
; PRIOR FILING DATE: 2004-05-17  
; PRIOR FILING DATE: 2004-05-17  
; PRIOR FILING DATE: 2004-04-19  
; PRIOR FILING DATE: 09/835,684  
; PRIOR FILING DATE: 2001-04-16  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 10  
; LENGTH: 1729  
; TYPE: DNA  
; ORGANISM: Pseudomonas syringae  
US-10-847-142-10

Query Match 11.5%; Score 155.2; DB 20; Length 1729;  
Best Local Similarity 57.1%; Pred. No. 1.7e-40;  
Matches 330; Conservative 0; Mismatches 233; Indels 15; Gaps 2;  
Qy 745 GCGCGTAATCAGACGGTGTGTCATGACACCATTAACCGTGAAGCGGTGAGGTTTGTAT 804  
Db 1079 GCGCGAAGTCAATGTGGTGAAGACACCATCAAGTCGGCGTGGCGAAGTCTTTGAC 1138  
Qy 805 GCGAAGGACAAACCTTTCACCGCGGTTTCAAGATTAGCGATGCGGCCAGTCTGAAAC 864  
Db 1139 GCGCAGCGCAACCTTCACTGCGCAAAATCTATGGTAAACGAGACGAGGCGAAAT 1198  
Qy 865 CAGAAACCGCTGTTTATCTGGAAGACGGTGCAGCTGAAACACGTCACCATGGGCGAC 924  
Db 1199 CAGAAAGCCATGTTGAGCTGGCTGAAGGGCTACGTTGAAGAATGTGAACCTGGGTGAG 1258  
Qy 925 GAGGGCGGATGGTATTCTTTAG-----GTGATGCCAAATAGACAAT 972  
Db 1259 AACGAGTCTGATGCTACCGTGAAGCGCAAAACGCTCAGGAAGTCACCATTGACAAC 1318  
Qy 973 CTGCACGTCAACACGTTGGGTGAGGACGCGATTACCGTTAAGCCAAACAGCGGGGCAAA 1032  
Db 1319 GTGCATGCCAGAACGTCGTTGAGACCTGATTACGTTCAAGCGGAGGAGGCGCAGCG 1378  
Qy 1033 AATCCACGCTTGAATCACTAAGTTCCTTTCGAGCAGCGCTCTGACAAAGATCTTCGAG 1092  
Db 1379 GTCACTAATCTGAACATCAAGAACAGCAGTGCCTGCAAGAGTGCAGACGAAAGTTGTCCAG 1438  
Qy 1093 CTGAATGCCGATACCTACCTGAGGTTGACAACTGAGGCCAAAGACTTTTGTACTTTT 1152  
Db 1439 CTCAAGCCCAACACTCACTTTGAAATCGAACCTTCAAGGCCGACGATTTTCGACGATG 1498  
Qy 1153 GTACGCACTAACGGCGGTCAACAG---GGTAACTGGGATCTGAATCTGAGCCATATCAGC 1209  
Db 1499 GTTCGCACCAACGGTGCAGAGCAGTTTGTATGACATGAGCATCGAGCTGAACGGCATCGAA 1558

Qy 1210 GCAGAAAGACGGTAAGTTCTCGTCTGTTAAAGCGATAGCGGGCTTAAACGTCATACC 1269  
Db 1559 GCTAACACCGCAAGTTTCGCCCTGGTGAAGAGCGACAGTACGATCTCGAAGCTGGCAACG 1618  
Qy 1270 AGTGATATCTCACTGGGTGATGTTGAAACACCACTACAA 1307  
Db 1619 GGCAACATCGCATGACCGGACGTCACACGCTACGA 1656

## RESULT 13

US-09-825-414-1  
; Sequence 1, Application US/09825414  
; Patent No. US20020083489A1  
; GENERAL INFORMATION:  
; APPLICANT: Colimer, Alan  
; APPLICANT: Alfano, James R.  
; APPLICANT: Charkowski, Amy O.  
; TITLE OF INVENTION: DNA MOLECULES AND POLYPEPTIDES OF PSEUDOMONAS SYRINGAE  
; FILE REFERENCE: 19603/3243  
; CURRENT APPLICATION NUMBER: US/09/825,414  
; CURRENT FILING DATE: 2001-04-03  
; PRIOR FILING DATE: 2000-04-03  
; PRIOR FILING DATE: 2000-04-03  
; PRIOR FILING DATE: 2000-08-11  
; PRIOR FILING DATE: 2000-11-17  
; NUMBER OF SEQ ID NOS: 91  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 30365  
; TYPE: DNA  
; ORGANISM: Pseudomonas syringae  
; NAME/KEY: unsure  
; LOCATION: (23734)  
; OTHER INFORMATION: n at any position is undefined  
US-09-825-414-1

Query Match 11.5%; Score 155.2; DB 9; Length 30365;  
Best Local Similarity 57.1%; Pred. No. 7.4e-40;  
Matches 330; Conservative 0; Mismatches 233; Indels 15; Gaps 2;  
Qy 745 GCGCGTAATCAGACGGTGTGTCATGACACCATTAACCGTGAAGCGGTGAGGTTTGTAT 804  
Db 21826 GCGCGCAAGTCAATGTGGTGAAGACACCATCAAGTCGGCGTGGCGAAGTCTTTGAC 21885  
Qy 805 GCGAAGGACAAACCTTTCACCGCGGTTTCAAGATTAGCGATGCGGCCAGTCTGAAAC 864  
Db 21886 GCGCAGCGGCAACCTTCACTGCCGCAAAATCTATGGGTAAACGAGACGAGGGCGAAAT 21945  
Qy 865 CAGAAACCGCTGTTTATCTGGAAGACGGTGCAGCTGAAACACGTCACCATGGGCGAC 924  
Db 21946 CAGAACCCATGTTGAGCTGGCTGAGGCGCTACGTTGAAGAATGTGAACCTGGGTGAG 22005  
Qy 925 GAGCGGCGGATGGTATTCTTTAG-----GTGATGCCAAATAGACAAT 972  
Db 22006 AACGAGTCTGATGCGATCCACGTGAAGCCAAACGCTCAGGAAGTCACCATTGACAAC 22065  
Qy 973 CTGCAGTCAACACGTTGGGTGAGGACGCGATTACCGTTAAGCCAAACAGCGGGGCAAA 1032  
Db 22066 GTGCATGCCAGAACGTCGGTGAAGACCTGATTACGGTCAAGGGCGAGGGCGCAGCG 22125  
Qy 1033 AATCCACGCTTCAAAATCACTAACAGTTCCTTCGAGCAGCGCTCTGACAAAGATCTTCGAG 1092  
Db 22126 GTCACTAATCTGAACATCAAGAACAGCAGTGCCAAAGGTGCAGACGAAAGTTGTCCAG 22185  
Qy 1093 CTGAATGCCGATACCTACCTGAGCGTTGACAACTGAGGCCAAAGACTTTTGTACTTTT 1152  
Db 22186 CTCAAGCCCAACACTCACTTTGAAATCGACAACCTTCAAGGCCGACGATTTTCGACGATG 22245  
Qy 1153 GTACGCACTAACGGCGGTCAACAG---GGTAACTGGGATCTGAATCTGAGCCATATCAGC 1209

Db 22246 GTTCGCAACCAAGCGTGAAGCAGTTTGTGATGACATGAGCATCGAGCTGAACGGCATCGAA 22305  
Qy 1210 GCAGAAACCGTAAAGTCTCGTTCGTTTAAAGGATAGCAGGGGCTAAACGTCAATACC 1269  
Db 22306 GCTAACCCAGCAAGTTTCGCCCTGGTGAAGGACAGTGAACGCTGGCAACG 22365  
Qy 1270 AGTGATATCTCACTGGGTGATGTTGAAACCACTACAA 1307  
Db 22366 GGCACATCGCATGACCGGACGTCACAAACACGCTACGA 22403

## RESULT 14

US-10-893-776A-1  
; Sequence 1, Application US/10893776A  
; Publication No. US20050039232A1  
; GENERAL INFORMATION:  
; APPLICANT: Collmer, Alan  
; APPLICANT: Alfano, James R.  
; APPLICANT: Charkowski, Amy O.  
; TITLE OF INVENTION: DNA MOLECULES AND POLYPEPTIDES OF PSEUDOMONAS SYRINGAE  
; TITLE OF INVENTION: HRP PATHOGENICITY ISLAND AND THEIR USES  
; FILE REFERENCE: 19603/3247  
; CURRENT APPLICATION NUMBER: US/10/893,776A  
; CURRENT FILING DATE: 2004-07-16  
; PRIOR FILING DATE: 60/194,160  
; PRIOR APPLICATION NUMBER: 60/224,604  
; PRIOR FILING DATE: 2000-04-03  
; PRIOR APPLICATION NUMBER: 60/249,548  
; PRIOR FILING DATE: 2000-11-17  
; PRIOR APPLICATION NUMBER: 09/825,414  
; PRIOR FILING DATE: 2001-04-03  
; NUMBER OF SEQ ID NOS: 91  
; SOFTWARE: Patentin ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 30365  
; TYPE: DNA  
; ORGANISM: Pseudomonas syringae  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (29734)  
; OTHER INFORMATION: n at position 29734 is undefined  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (30237)  
; OTHER INFORMATION: n at position 30237 is undefined  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (30317)  
; OTHER INFORMATION: n at position 30317 is undefined  
US-10-893-776A-1

Query Match 11.5%; Score 155.2; DB 21; Length 30365;  
Best Local Similarity 57.1%; Pred. No. 7.4e-40;  
Matches 330; Conservative 0; Mismatches 233; Indels 15; Gaps 2;  
Qy 745 GCGCTAATCAGCGGTGTCGATGACACCATTAACGTAAGCGGTGAGTGTGAT 804  
Db 21826 GCCGGCAAGATCAATGTGTTGAAGACACCATCAAGGTGGCGCTGGCGAAGTCTTTGAC 21885  
Qy 805 GGCAGAGGACAAACCTTCACCGCGGTTCAGAATTAGCGGATGGCGCCAGTCTGAAAC 864  
Db 21886 GGCACGGCGCAACCTTCACTCGCGAATCTATGGTTAACGGACACGCGGCGAAAT 21945  
Qy 865 CAGAAACCGCTGTTTATCTGGAAGACGGTCCAGCGCTGAAACACGTCAACATGGCGAC 924  
Db 21946 CAGAAGCCCATGTTGAGCTGGCTGAAGGCGCTACGTTGAAGAATGTGAACCTGGGTGAG 22005  
Qy 925 GACGGGGCGATGGTATTCTTTACG-----GTGATGCCAAATAGACAAT 972  
Db 22006 AACGAGTCTGATGGCATCCACGTGAAAGCCAAACACGCTCAGGAAGTCAACCTTGACAAC 22065

Qy 973 CTGCAAGTCACCAACGCTGGGTGAGGACGGATTACCGTTTAAGCCAAACAGCGCGCAAA 1032  
Db 22066 GTGCATGCCAGAACCTCGGTGAAGACCTGATTACGGTCAAGGCGAGGAGCGCAGCG 22125  
Qy 1033 AAATCCCAAGTTGAAATCACTAACAGTTCCTTCGAGCAGCGCTCTGACAAGATCTCTGCAG 1092  
Db 22126 GTCACTAATCTGAACATCAAGAACAGCAGTGCCTCAAGAGTGCAGACGACAAGGTTGTCCAG 22185  
Qy 1093 CTGAATGCCGATACTAAACCTGAGCGTTGACAAGCTGAAGGCCAAAGACTTTGGTACTTTT 1152  
Db 22186 CTCAACGCCCAACACTCACTTTGAAAATCGAACATTCGAAGGCCGACGATTTCCGACGATG 22245  
Qy 1153 GTACGCACTAAACGGCGTCAACAG---GGTAACCTGGGATCTGAATCTGAGCCATATCAGC 1209  
Db 22246 GTTCGCAACCAACGGTGGCAAGCAGTTTGTGATGACATGAGCATCGAGCTGAACGGCATCGAA 22305  
Qy 1210 GCAGAAACCGGTAAGTTCTCGTTCTGTTTAAAGCGATAGCGGGCTAAACGTCATACC 1269  
Db 22306 GCTAACCAACGGCAAGTTTCGCCCTGGTGAAGGACGACAGTGAACGCTGGCAACG 22365  
Qy 1270 AGTGATATCTCACTGGGTGATGTTGAAACCACTACAA 1307  
Db 22366 GGCACATCGCCATGACCGACGTCACAAACACGCGCTACGA 22403

## RESULT 15

US-10-156-761-6360  
; Sequence 6360, Application US/10156761  
; Publication No. US20030119018A1  
; GENERAL INFORMATION:  
; APPLICANT: OMURA, SATOSHI  
; APPLICANT: IKEDA, HARUO  
; APPLICANT: ISHIKAWA, JUN  
; APPLICANT: HORIKAWA, HIROSHI  
; APPLICANT: SHIBA, TADAYOSHI  
; APPLICANT: SAKAKI, YOSHIYUKI  
; APPLICANT: HATTORI, MASAHIRA  
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
; FILE REFERENCE: 249-262  
; CURRENT APPLICATION NUMBER: US/10/156,761  
; CURRENT FILING DATE: 2002-05-29  
; PRIOR APPLICATION NUMBER: JP 2001-204089  
; PRIOR FILING DATE: 2001-05-30  
; PRIOR APPLICATION NUMBER: JP 2001-272697  
; PRIOR FILING DATE: 2001-08-02  
; NUMBER OF SEQ ID NOS: 15109  
; SEQ ID NO 6360  
; LENGTH: 828  
; TYPE: DNA  
; ORGANISM: Streptomyces avermitilis  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(828)  
US-10-156-761-6360

Query Match 5.3%; Score 71.2; DB 15; Length 828;  
Best Local Similarity 51.6%; Pred. No. 1.8e-12;  
Matches 191; Conservative 0; Mismatches 173; Indels 6; Gaps 1;  
Qy 798 GTTGTATGGCAAGGACAAACCTTCACCGCCGGTTTCAGAAATTAGGCGATGGCGGCCAGTC 857  
Db 204 GTACGACGCGAAGCTGAAGAAGTCTCCGGAGCGGGACCTCGGACCGCGACCGACGATC 263  
Qy 858 TGAAGAACGAGAAACCGCTGTTTATCTGGAAGACGGTGCAGCTGGAAGAAACGTCAACAT 917  
Db 264 CGAGGACCAAGGCGCCGCTCTTCGAGCTCGAGACGGTGGCGGTCTCTGAAGAACGTGATCAT 923  
Qy 918 GGGCGACGACGGGGCGGATGTTTATCTTTACGGTGTATGCCAAATAGACAACTCTGCA 977  
Db 324 CGGTACCCCGCGCGGACGGGTCCATGCTGGGCGAGTTGACGCTCGAAGACGTGTG 383  
Qy 978 CGTCAACAAAGTGGGTGAGGACGCGATTAACCGTTTAAGCCAAACAGCGCGGGCAAAAATC 1037

Db	384	GTGGCTGGACGTCGGCGAGGACGGCGAGCTTCAAGAGCAAGTCCTCGTCGGCGAGTA	443
Qy	1038	CCAGGTTGAATCACTAACAGTTCCTTCGAGCAGCCCTCTGACAAAGATCCTGCAAGCTGAA	1097
Db	444	CAAGG-----TGATCGGCGGCGCGAAGTCGGCCTCCGACAAAGGTGCTCCAGTTCAA	497
Qy	1098	TGCCGATACTAACTGAGCGTTGACAAAGTGAAGGCCAAAGACTTTGGTACTTTGTACG	1157
Db	498	CGGGGCGGCGACGCTGACCGGCTTCCAGGTGGAGAACTTCGGCAAGCTGGTGCG	557
Qy	1158	CACTAACGGC	1167
Db	558	CTCCTGCGGC	567

Search completed: July 29, 2005, 21:15:24  
 Job time : 942 secs

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